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FIGURE 1337

GTCAAG**ATG**GCGGGAGCAGCTACCCAGGCTTCCCTGGAGTCGGCCCCACGGATCATGCGGCTGGTGGCCGAATGC
AGCCGCTCCAGGGCCCGGGCAGGCGAGCTGTGGCTGCCGCATGGGACAGTGGCCACTCCTGTGTTCATGCCAGTG
GGCACGCAGGCCACCATGAAGGGCATCACGACCGAACAGCTGGACGCTCTGGGTTGCCGCATCTGCCTGGGCAAT
ACCTACCATCTGGGTCTAAGGCCGGGACCCGAGCTGATCCAGAAAGCCAACGGTCTCCACGGCTTCATGAATTGG
CCTCATAATCTGCTAACGGACAGCGGCGGTTTCCAGATGGTGTCGCTGGTGTCTCTGTCCGAGGTGACGGAGGAG
GGCGTCCGCTTCCGCTCCCCCTACGACGGCAATGAGACCCTGCTGAGCCCGGAGAAATCCGTGCAGATCCAGAAT
GCGCTGGGCTCGGACATCATCATGCAGCTGGACGACGTGGTTAGCAGTACTGTGACTGGGCCACGTGTGGAGGAG
GCCATGTACAGGTCAATCCGCTGGCTGGACCGGTGCATTGCAGCCCATCAGCGGCCGGACAAGCAGAACCTCTTC
GCCATTATCCAGGGTGGGCTGGACGCAGATCTCCGGGCCACCTGCCTTGAAGAGATGACCAAGCGAGACGTGCCT
GGCTTCGCCATCGGGGGCCTGAGCGGGGGTGAGAGCAAGTCGCAGTTCTGGCGGATGGTGGCGCTGAGCACCTCT
CGGCTGCCGAAGGACAAGCCCCGATATCTGATGGGGGTTGGCTATGCCACTGATCTGGTAGTCTGCGTGGCTCTT
GGATGTGACATGTTCGACTGCGTCTTCCCCACACGGACAGCGCGCTTTGGCTCTGCCCTGGTGCCCACTGGGAAC
CTGCAGTTGAGGAAGAAGGTGTTTGAGAAGGACTTCGGCCCCATAGACCCGGAGTGCACCTGCCCCACGTGCCAA
AAGCACAGCCGCGCCTTCCTGCACGCACTGCTGCACAGTGACAACACGGCCGCGCTGCACCACCTCACGGTCCAC
AACATCGCCTACCAGCTGCAGCTCATGAGCGCCGTCCGCACCAGCATCGTGGAGAAGCGCTTCCCGGACTTCGTG
CGGGACTTCATGGGCGCCATGTACGGGGATCCCACCCTCTGTCCCACCTGGGCCACTGACGCTCTGGCCTCTGTG
GGAATCACACTTGGC**TGA**CCTGGCATTGGGAGAGGGAGGGAGGAAGGAAGGGAGGGAGGGGGCTGGAAGATACTGA
AGGATTCCTTTTTGAAAGGTTTTTTTTTATTGTAACTT

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FIGURE 1338

MAGAATQASLESAPRIMRLVAECSRSRARAGELWLPHGTVATPVFMPVGTQATMKGITTEQLDALGCRICLGNTY
HLGLRPGPELIQKANGLHGFMNWPHNLLTDSGGFQMVSLVSLSEVTEEGVRFRSPYDGNETLLSPEKSVQIQNAL
GSDIIMQLDDVVSSTVTGPRVEEAMYRSIRWLDRCIAAHQRPDKQNLFAIIQGGLDADLRATCLEEMTKRDVPGF
AIGGLSGGESKSQFWRMVALSTSRLPKDKPRYLMGVGYATDLVVCVALGCDMFDCVFPTRTARFGSALVPTGNLQ
LRKKVFEKDFGPIDPECTCPTCQKHSRAFLHALLHSDNTAALHHLTVHNIAYQLQLMSAVRTSIVEKRFPDFVRD
FMGAMYGDPTLCPTWATDALASVGITLG

FIGURE 1339

ATGGCCCTGCGCAAGGAACTGCTCAAGTCCATCTGGTACGCCTTTACCGCGCTGGACGTGGAGAAGAGTGGCAAA
GTCTCCAAGTCCCAGCTCAAGGTGCTGTCCCACAACCTGTACACGGTCCTGCACATCCCCCATGACCCCGTGGCC
CTGGAGGAACACTTCCGAGATGATGATGACGGCCCTGTGTCCAGCCAGGGATACATGCCCTACCTCAACAAGTAC
ATCCTGGACAAGGTGGAGGAGGGGGGCTTTTGTTAAAGAGCACTTTGATGAGCTGTGCTGGACGCTGACGGCCAAG
AAGAACTATCGGGCAGATAGCAACGGGAACAGTATGCTCTCCAATCAGGATGCCTTCCGCCTCTGGTGCCTCTTC
AACTTCCTGTCTGAGGACAAGTACCCTCTGATCATGGTTCCTGATGAGGTGGAATACCTGCTGAAAAAGGTACTC
AGCAGCATGAGCTTGGAGGTGAGCTTGGGTGAGCTGGAGGAGCTTCTGGCCCAGGAGGCCCAGGTGGCCCAGACC
ACCGGGGGGCTCAGCGTCTGGCAGTTCCTGGAGCTCTTCAATTCGGGCCGCTGCCTGCGGGGCGTGGGCCGGGAC
ACCCTCAGCATGGCCATCCACGAGGTCTACCAGGAGCTCATCCAAGATGTCCTGAAGCAGGGCTACCTGTGGAAG
CGAGGGCACCTGAGAAGGAACTGGGCCGAACGCTGGTTCCAGCTGCAGCCCAGCTGCCTCTGCTACTTTGGGAGT
GAAGAGTGCAAAGAGAAAAGGGGCATTATCCCGCTGGATGCACACTGCTGCGTGGAGGTGCTGCCAGACCGCGAC
GGAAAGCGCTGCATGTTCTGTGTGAAGACAGCCAACCGCACGTATGAGATGAGCGCCTCAGACACGCGCCAGCGC
CAGGAGTGGACAGCTGCCATCCAGATGGCGATCCGGCTGCAGGCCGAGGGGAAGACGTCCCTACACAAGGACCTG
AAGCAGAAACGGCGCGAGCAGCGGGAGCAGCGGGAGCGGCGCCGGGCGGCCAAGGAAGAGGAGCTGCTGCGGCTG
CAGCAGCTGCAGGAGGAGAAGGAGCGGAAGCTGCAGGAGCTGGAGCTGCTGCAGGAGGCGCAGCGGCAGGCCGAG
CGGCTGCTGCAGGAGGAGGAGGAACGGCGCCGCAGCCAGCACCGCGAGCTGCAGCAGGCGCTCGAGGGCCAACTG
CGCGAGGCGGAGCAGGCCCGGGCCTCCATGCAGGCTGAGATGGAGCTGAAGGAGGAGGAGGCTGCCCGGCAGCGG
CAGCGCATCAAGGAGCTGGAGGAGATGCAGCAGCGGTTGCAGGAGGCCCTGCAACTAGAGGTGAAAGCTCGGCGA
GATGAAGAATCTGTGCGAATCGCTCAGACCAGACTGCTGGAAGAGGAGGAAGAGAAGCTGAAGCAGTTGATGCAG
CTGAAGGAGGAGCAGGAGCGCTACATCGAACGGGCGCAGCAGGAGAAGGAAGAGCTGCAGCAGGAGATGGCACAG
CAGAGCCGCTCCCTGCAGCAGGCCCAGCAGCAGCTGGAGGAGGTGCGGCAGAACCGGCAGAGGGCTGACGAGGAT
GTGGAGGCTGCCCAGAGAAAACTGCGCCAGGCCAGCACCAACGTGAAACACTGGAATGTCCAGATGAACCGGCTG
ATGCATCCAATTGAGCCTGGAGATAAGCGTCCGGTCACCAGCAGCTCCTTCTCAGGCTTCCAGCCCCCTCTGCTT
GCCCACCGTGACTCCTCCCTAAAGCGCCTGACCCGCTGGGGATCCCAGGGCAACAGGACCCCCTCGCCCAACAGC
AATGAGCAGCAGAAGTCCCTCAATGGTGGGGATGAGGCTCCTGCCCCGGCTTCCACCCCTCAGGAAGATAAACTG
GATCCAGCACCAGAAAAT**TAG**A

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FIGURE 1340

MALRKELLKSIWYAFTALDVEKSGKVSKSQLKVLSHNLYTVLHIPHDPVALEEHFRDDDDGPVSSQGYMPYLNKY
ILDKVEEGAFVKEHFDELCWTLTAKKNYRADSNGNSMLSNQDAFRLWCLFNFLSEDKYPLIMVPDEVEYLLKKVL
SSMSLEVSLGELEELLAQEAQVAQTTGGLSVWQFLELFNSGRCLRGVGRDTLSMAIHEVYQELIQDVLKQGYLWK
RGHLRRNWAERWFQLQPSCLCYFGSEECKEKRGIIPLDAHCCVEVLPDRDGKRCMFCVKTANRTYEMSASDTRQR
QEWTAAIQMAIRLQAEGKTSLHKDLKQKRREQREQRERRRAAKEEELLRLQQLQEEKERKLQELELLQEAQRQAE
RLLQEEEERRRSQHRELQQALEGQLREAEQARASMQAEMELKEEEAARQRQRIKELEEMQQRLQEALQLEVKARR
DEESVRIAQTRLLEEEEEKLKQLMQLKEEQERYIERAQQEKEELQQEMAQQSRSLQQAQQQLEEVRQNRQRADED
VEAAQRKLRQASTNVKHWNVQMNRLMHPIEPGDKRPVTSSSFSGFQPPLLAHRDSSLKRLTRWGSQGNRTPSPNS
NEQQKSLNGGDEAPAPASTPQEDKLDPAPEN

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FIGURE 1341

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CTTCTGTGTGTGCACATGTGTAATACATATCTGGGATCAAAGCTATCTATATAAAGTCCTTGATTCTGTGTGGGT
TCAAACACATTTCAAAGCTTCAGGATCCTGAAAGGTTTTGCTCTACTTCCTGAAGACCTGAACACCGCTCCCATA
AAGCCATGGCTTGCCTTGGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCTACCAGGACCTGGCCCTGCACTC
TCCTGTTTTTTCTTCTCTTCATCCCTGTCTTCTGCAAAGCAATGCACGTGGCCCAGCCTGCTGTGGTACTGGCCA
GCAGCCGAGGCATCGCCAGCTTTGTGTGTGAGTATGCATCTCCAGGCAAAGCCACTGAGGTCCGGGTGACAGTGC
TTCGGCAGGCTGACAGCCAGGTGACTGAAGTCTGTGCGGCAACCTACATGATGGGGAATGAGTTGACCTTCCTAG
ATGATTCCATCTGCACGGGCACCTCCAGTGGAAATCAAGTGAACCTCACTATCCAAGGACTGAGGGCCATGGACA
CGGGACTCTACATCTGCAAGGTGGAGCTCATGTACCCACCGCCATACTACCTGGGCATAGGCAACGGAACCCAGA
TTTATGTAATTGATCCAGAACCGTGCCCAGATTCTGACTTCCTCCTCTGGATCCTTGCAGCAGTTAGTTCGGGGT
TGTTTTTTTATAGCTTTCTCCTCACAGCTGTTTCTTTGAGCAAAATGCTAAAGAAAAGAAGCCCTCTTACAACAG
GGGTCTATGTGAAAATGCCCCCAACAGAGCCAGAATGTGAAAAGCAATTTCAGCCTTATTTTATTCCCATCAATT
GAGAAACCATTATGAAGAAGAGAGTCCATATTTCAATTTCCAAGAGCTGAGGCAATTCTAACTTTTTTGCTATCC
AGCTATTTTTATTTGTTTGTGCATTTGGGGGGAATTCATCTCTCTTTAATATAAAGTTGGATGCGGAACCCAAAT
TACGTGTACTACAATTTAAAGCAAAGGAGTAGAAAGACAGAGCTGGGATGTTTCTGTCACATCAGCTCCACTTTC
AGTGAAAGCATCACTTGGGATTAATATGGGGATGCAGCATTATGATGTGGGTCAAGGAATTAAGTTAGGGAATGG
CACAGCCCAAAGAAGGAAAAGGCAGGGAGCGAGGGAGAAGACTATATTGTACACACCTTATATTTACGTATGAGA
CGTTTATAGCCGAAATGATCTTTTCAAGTTAAATTTTATGCCTTTTATTTCTTAAACAAATGTATGATTACATCA
AGGCTTCAAAAATACTCACATGGCTATGTTTTAGCCAGTGATGCTAAAGGTTGTATTGCATATATACATATATAT
ATATATATATATATATATATATATATATATATATATATTTTAATTTGATAGTATTGTGCATAGAGCCACGTAT
GTTTTTGTGTATTTGTTAATGGTTTGAATATAAACACTATATGGCAGTGTCTTTCCACCTTGGGTCCCAGGGAAG
TTTTGTGGAGGAGCTCAGGACACTAATACACCAGGTAGAACACAAGGTCATTTGCTAACTAGCTTGGAAACTGGA
TGAGGTCATAGCAGTGCTTGATTGCGTGGAATTGTGCTGAGTTGGTGTTGACATGTGCTTTGGGGCTTTTACACC
AGTTCCTTTCAATGGTTTGCAAGGAAGCCACAGCTGGTGGTATCTGAGTTGACTTGACAGAACACTGTCTTGAAG
ACAATGGCTTACTCCAGGAGACCCACAGGTATGACCTTCTAGGAAGCTCCAGTTCGATGGGCCCAATTCTTACAA
ACATGTGGTTAATGCCATGGACAGAAGAAGGCAGCAGGTGGCAGAATGGGGTGCATGAAGGTTTCTGAAAATTAA
CACTGCTTGTGTTTTTAACTCAATATTTTCCATGAAAATGCAACAACATGTATAATATTTTTAATTAAATAAAAA
TCTGTGGTGGTCGTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1342

MACLGFQRHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLR
QADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIY
VIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTEPECEKQFQPYFIPIN

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FIGURE 1343

<u>ATG</u>GCGGCCTCAGCAGCGCGAGGTGCTGCGGCGCTGCGTAGAAGTATCAATCAGCCGGTTGCTTTTGTGAGAAGA
ATTCCTTGGACTGCGGCGTCGAGTCAGCTGAAAGAACACTTTGCACAGTTCGGCCATGTCAGAAGGTGCATTTTA
CCTTTTGACAAGGAGACTGGCTTTCACAGAGGTTTGGGTTGGGTTCAGTTTTCTTCAGAAGAAGGACTTCGGAAT
GCACTACAACAGGAAAATCATATTATAGATGGAGTAAAGGTCCAGGTTCACACTAGAAGGCCAAAACTTCCGCAA
ACATCTGATGATGAAAAGAAAGATTTT<u>TGA</u>

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FIGURE 1344

MAASAARGAAALRRSINQPVAFVRRIPWTAASSQLKEHFAQFGHVRRCILPFDKETGFHRGLGWVQFSSEEGLRN
ALQQENHIIDGVKVQVHTRRPKLPQTSDDEKKDF

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FIGURE 1345

CCTGGGCCAGCATGGCGGCGCCCATGTAACCCGGTCCGTGCCGCAAAGCGAACGGCGGCCGCGGCGCGGGCCCCG
CGGGGGTTAGAGGTCACC**ATG**CTGAGGGTCGCGTGGAGGACGCTGAGTTTGATTCGGACCCGGGCAGTTACCCAG
GTCCTAGTACCCGGGCTGCCGGGCGGTGGGAGCGCCAAGTTTCCTTTCAACCAGTGGGGCCTGCAGCCTCGAAGT
CTCCTCCTCCAGGCCGCGCGCGGATATGTCGTCCGGAAACCAGCCCAGTCTAGGCTGGATGATGACCCACCTCCT
TCTACGCTGCTCAAAGACTACCAGAATGTCCCTGGAATTGAGAAGGTTGATGATGTCGTGAAAAGACTCTTGTCT
TTGGAAATGGCCAACAAGAAGGAGATGCTAAAAATCAAGCAAGAACAGTTTATGAAGAAGATTGTTGCAAACCCA
GAGGACACCAGATCCCTGGAGGCTCGAATTATTGCCTTGTCTGTCAAGATCCGCAGTTATGAAGAACACTTGGAG
AAACATCGAAAGGACAAAGCCCACAAACGCTATCTGCTAATGAGCATTGACCAGAGGAAAAAGATGCTCAAAAAC
CTCCGTAACACCAACTATGATGTCTTTGAGAAGATATGCTGGGGGCTGGGAATTGAGTACACCTTCCCCCCTCTG
TATTACCGAAGAGCCCACCGCCGATTCGTGACCAAGAAGGCTCTGTGCATTCGGGTTTTCCAGGAGACTCAAAAG
CTGAAGAAGCGAAGAAGAGCCTTAAAGGCTGCAGCAGCAGCCCAAAAACAAGCAAAGCGGAGGAACCCAGACAGC
CCTGCCAAAGCCATACCAAAGACACTCAAAGACAGCCAA**TAA**ATTCTGTTCAATCATTAAAAAAAA

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FIGURE 1346

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MLRVAWRTLSLIRTRAVTQVLVPGLPGGGSAKFPFNQWGLQPRSLLLQAARGYVVRKPAQSRLDDDPPPSTLLKD
YQNVPGIEKVDDVVKRLLSLEMANKKEMLKIKQEQFMKKIVANPEDTRSLEARIIALSVKIRSYEEHLEKHRKDK
AHKRYLLMSIDQRKKMLKNLRNTNYDVFEKICWGLGIEYTFPPLYYRRAHRRFVTKKALCIRVFQETQKLKKRRR
ALKAAAAAQKQAKRRNPDSPAKAIPKTLKDSQ
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FIGURE 1347

<u>ATG</u>GCAGGCCTGATGACCATAGTAACCAGCCTTCTGTTCCTTGGTGTCTGTGCCCACCACATCATCCCTACGGGC
TCTGTGGTCATCCCCTCTCCCTGCTGCATGTTCTTTGTTTCCAAGAGAATTCCTGAGAACCGAGTGGTCAGCTAC
CAGCTGTCCAGCAGGAGCACATGCCTCAAGGCAGGAGTGATCTTCACCACCAAGAAGGGCCAGCAGTTCTGTGGC
GACCCCAAGCAGGAGTGGGTCCAGAGGTACATGAAGAACCTGGACGCCAAGCAGAAGAAGGCTTCCCCTAGGGCC
AGGGCAGTGGCTGTCAAGGGCCCTGTCCAGAGATATCCTGGCAACCAAACCACCTGC<u>TAA</u>

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FIGURE 1348

MAGLMTIVTSLLFLGVCAHHIIPTGSVVIPSPCCMFFVSKRIPENRVVSYQLSSRSTCLKAGVIFTTKKGQQFCG
DPKQEWVQRYMKNLDAKQKKASPRARAVAVKGPVQRYPGNQTTC

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FIGURE 1349A

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GGGGGCAGAAAAGGGGGCGGCGGACTCGGCTTGTTGTGTTGCTGCCTGAGTGCCGGAGACGGTCCTGCTGCTGCC
GCAGTCCTGCCAGCTGTCCGACGATGTCGTCCCACCTAGTCGAGCCGCCGCCGCCCCTGCACAACAATAACAACA
ACTGCGAGGAAAATGAGCAGTCTCTGCCCCCGCCGGCCGGCCTCAACAGTTCCTGGGTGGAGCTACCCATGAACA
GCAGCAATGGCAATGATAATGGCAATGGGAAAAATGGGGGGCTGGAACACGTACCATCCTCATCCTCCATCCACA
ATGGAGACATGGAGAAGATTCTTTTGGATGCACAACATGAATCAGGACAGAGTAGTTCCAGAGGCAGTTCTCACT
GTGACAGCCCTTCGCCACAAGAAGATGGGCAGATCATGTTTGATGTGGAAATGCACACCAGCAGGGACCATAGCT
CTCAGTCAGAAGAAGAAGTTGTAGAAGGAGAGAAGGAAGTCGAGGCTTTGAAGAAAAGTGCGGACTGGGTATCAG
ACTGGTCCAGTAGACCCGAAAACATTCCACCCAAGGAGTTCCACTTCAGACACCCTAAACGTTCTGTGTCTTTAA
GCATGAGGAAAAGTGGAGCCATGAAGAAAGGGGGTATTTTCTCCGCAGAATTTCTGAAGGTGTTCATTCCATCTC
TCTTCCTTTCTCATGTTTTGGCTTTGGGGCTAGGCATCTATATTGGAAAGCGACTGAGCACACCCTCTGCCAGCA
CCTACTGAGGGAAAGGAAAAGCCCCTGGAAATGCGTGTGACCTGTGAAGTGGTGTATTGTCACAGTAGCTTATTT
GAACTTGAGACCATTGTAAGCATGACCCAACCTACCACCCTGTTTTTACATATCCAATTCCAGTAACTCTCAAAT
TCAATATTTTATTCAAACTCTGTTGAGGCATTTTACTAACCTTATACCCTTTTTGGCCTGAAGACATTTTAGAAT
TTCCTAACAGAGTTTACTGTTGTTTAGAAATTTGCAAGGGCTTCTTTTCCGCAAATGCCACCAGCAGATTATAAT
TTTGTCAGCAATGCTATTATCTCTAATTAGTGCCACCAGACTAGACCTGTATCATTCATGGTATAAATTTTACTC
TTGCAACATAACTACCATCTCTCTCTTAAAACGAGATCAGGTTAGCAAATGATGTAAAAGAAGCTTTATTGTCTA
GTTGTTTTTTTTCCCCCAAGACAAAGGCAAGTTTCCCTAAGTTTGAGTTGATAGTTATTAAAAAGAAACAAAAC
AAAAAAAAAAGGCAAGGCACAACAAAAAAATATCCTGGGCAATAAAAAAAAATATTTTAAACCAGCTTTGGAGCCA
CTTTTTTGTCTAAGCCTCCTAATAGCGTCTTTTAATTTATAGGAGGCAAACTGTATAAATGATAGGTATGAAATA
GAATAAGAAGTAAAATACATCAGCAGATTTTCATACTAGTATGTTGTAATGCTGTCTTTTCTATGGTGTAGAATC
TTTCTTTCTGATAAGGAACGTCTCAGGCTTAGAAATATATGAAATTGCTTTTTGAGATTTTTGCGTGTGTGTTTG
ATATTTTTTACGATAATTAGCTGCATGTGAATTTTTCATGACCTTCTTTACATTTTTTATTTTTTATTTCTTTAT
TTTTTTTTCTCTAAGAAGAGGCTTTGGAATGAGTTCCAATTTGTGATGTTAATACAGGCTTCTTGTTTTAGGAAG
CATCACCTATACTCTGAAGCCTTTAAACTCTGAAGAGAATTGTTTCAGAGTTATTCCAAGCACTTGTGCAACTTG
GAAAAACAGACTTGGGTTGTGGGAACAGTTGACAGCGTTCTGAAAAGATGCCATTTGTTTCCTTCTGATCTCTCA
CTGAATAATGTTTACTGTACAGTCTTCCCAAGGTGATTCCTGCGACTGCAGGCACTGGTCATTTTCTCATGTAGC
TGTCTTTTCAGTTATGGTAAACTCTTAAAGTTCAGAACACTCAACAGATTCCTTCAGTGATATACTTGTTCGTTC
ATTTCTAAAATGTGAAGCTTTAGGACCAAATTGTTAGAAAGCATCAGGATGACCAGTTATCTCGAGTAGATTTTC
TTGGATTTCAGAACATCTAGCATGACTCTGAAGGATACCACATGTTTTATATATAAATAATTACTGTTTATGATA
TAGACATTGATATTGACTATTTAGAGAACCGTTGTTAATTTTAAAAACTAGCAATCTATAAAGTGCACCAGGTCAA
CTTGAATAAAAACACTATGACAGACAGGTTTGCCAGTTTGCAGAAACTAACTCTTTTCTCACATCAACATTTGTA
AAAATTGATGTGTTATAGTGGAAAATAACATATAGATTAAACAAAATTTTTATCTTTTTTCAAGAATATAGCTGGC
TATCTTTAAGAAAGATGATATATCCTAGTTTTGAAAGTAATTTTCTTTTTTCTTTCTAGCATTTGATGTCTAAAT
AATTTTGGACATCTTTTTCCTAGACCATGTTTCTGTCTTACTCTTAAACCTGGTAACACTTGATTTGCCTTCTAT
AACCTATTTATTTCAAGTGTTCATATTTGAATTTCTTTGGGAAGAAAGTAAATCTGATGGCTCACTGATTTTTGA
AAAGCCTGAATAAAATTGGAAAGACTGGAAAGTTAGGAGAACTGACTAGCTAAACTGCTACAGTATGCAATTTCT
ATTACAATTGGTATTACAGGGGGGAAAAGTAAAATTACACTTTACCTGAAAGTGACTTCTTACAGCTAGTGCATT
GTGCTCTTTCCAAGTTCAGCAGCAGTTCTATCAGTGGTGCCACTGAAACTGGGTATATTTATGATTTCTTTCAGC
GTTAAAAAGAAACATAGTGTTGCCCTTTTTCTTAAAGCATCAGTGAAATTATGGAAAATTACTTAAAACGTGAAT
ACATCATCACAGTAGAATTTATTATGAGAGCATGTAGTATGTATCTGTAGCCCTAACACATGGGATGAACGTTTT
ACTGCTACACCCAGATTTGTGTTGAACGAAAACATTGTGGTTTGGAAAGGAGAATTCAACAATTAATAGTTGAAA
TTGTGAGGTTAATGTTTAAAAAGCTTTACACCTGTTTACAATTTGGGGACAAAAAGGCAGGCTTCATTTTTCATA
TGTTTGATGAAAACTGGCTCAAGATGTTTGTAAATAGAATCAAGAGCAAAACTGCACAAACTTGCACATTGGAAA
GTGCAACAAGTTCCCGTGATTGCAGTAAAAATATTTACTATTCTAAAAAAATGAGAATTGAAGACTTAGCCAGTC
AGATAAGTTTTTTCATGAACCCGTTGTGGAAATTATTGGAATTAACTGAGCCAAAGTGATTATGCATTCTTCATC
TATTTTAGTTAGCACTTTGTATCGTTATATACAGTTTACAATACATGTATAACTTGTAGCTATAAACATTTTGTG
CCATTAAAGCTCTCACAAAACTTTTCCTGTCAGTATATCATTTTTCTGTCGCACCTGTTGCCTGGGAGTTTCAGG
CGATGAGGCCTCCTCGCCTACACACAGCCTTCCAGTCATCTGGCTTCCCCAGCAGTGGAGTTCCTAACAGTGCTC
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FIGURE 1349B

AGGGTGTGAACGGTGTTCTGTGGGGACAGTCACCGCAGTGTGAGCATTCGTGAGTGCCTCGGGACTGTGGCATTC
AGAGCATTTGCCTCCAGGTAGTGGCAGGAGGGCGCTCACGGGAGGAGTGCTCAGGAAGTACAGGAGAGAAGAAGA
GTGTGCCCTGATGGAAATGACAGTGGGACACCAGTGAAAGTGGATCCAGAAGGAACTGGAAGTTCCACGTGCCTG
GAAAACAGGATGGATACAGAGGAAACTGAAAAATGTAGGTTAGTACTGAACCTAATTGAAATGTGTGTGCCCTCC
CAGGGGTCACACTTCATCATATAGTTAGCTGGGTTTACTTCTTTTAAACCAGGAGGTGATTTAAGATGTAAATTT
TAGACAGTCAAGCCATCTGGTGAGAGAGTACCAGAGGAGATCAATCAGTTCTCTAGGCGAGGAGCTAGGGCCTGT
CCTGGGCTGTCACCCTGAGGTTGGCAGTGGTGGGCCAGGATACGTATGAGAAACAAAGCGGAAGTAAACTGGTCA
GAAAGTGACTTAGAGACGAAGGCGTGTGTATTCCTTTGTGTGTGTGGCCCGTAAAACATGGGTTGATCCCATTAG
TTAAAGGAGGACAGGAGAAGAAATGGGGTGGTAGGAGCAAAGAGGGAGGATTTCAGTTTTGAGTGCGTTGAACAT
GAAATGTCTGAGGGCCTTCTGATTGGACACTTACTCC

FIGURE 1350

GQKRGRRTRLVVLLPECRRRSCCCRSPASCPTMSSHLVEPPPPLHNNNNNCEENEQSLPPPAGLNSSWVELPMNS
SNGNDNGNGKNGGLEHVPSSSSIHNGDMEKILLDAQHESGQSSSRGSSHCDSPSPQEDGQIMFDVEMHTSRDHSS
QSEEEVVEGEKEVEALKKSADWVSDWSSRPENIPPKEFHFRHPKRSVSLSMRKSGAMKKGGIFSAEFLKVFIPSL
FLSHVLALGLGIYIGKRLSTPSASTY

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FIGURE 1351

GCGGCGGACTCGGCTTGTTGTGTTGCTGCCTGAGTGCCGGAGACGGTCCTGCTGCTGCCGCAGTCCTGCCAGCTG
TCCGACG**ATG**TCGTCCCACCTAGTCGAGCCGCCGCCGCCCCTGCACAACAACAACAACAACTGCGAGGAAAATGA
GCAGTCTCTGCCCCCGCCGGCCGGCCTCAACAGTTCCTGGGTGGAGCTACCCATGAACAGCAGCAATGGCAATGA
TAATGGCAATGGGAAAAATGGGGGGCTGGAACACGTACCATCCTCATCCTCCATCCACAATGGAGACATGGAGAA
GATTCTTTTGGATGCACAACATGAATCAGGACAGAGTAGTTCCAGAGGCAGTTCTCACTGTGACAGCCCTTCGCC
ACAAGAAGATGGGCAGATCATGTTTGATGTGGAAATGCACACCAGCAGGGACCATAGCTCTCAGTCAGAAGAAGA
AGTTGTAGAAGGAGAGAAGGAAGTCGAGGCTTTGAAGAAAAGTGCGGACTGGGTATCAGACTGGTCCAGTAGACC
CGAAAACATTCCACCCAAGGAGTTCCACTTCAGACACCCTAAACGTTCTGTGTCTTTAAGCATGAGGAAAAGTGG
AGCCATGAAGAAAGGGGGTATTTTCTCCGCAGAATTTCTGAAGGTGTTCATTCCATCTCTCTTCCTTTCTCATGT
TTTGGCTTTGGGGCTAGGCATCTATATTGGAAAGCGACTGAGCACACCCTCTGCCAGCACCTAC**TGA**GGGAAAGG
AAAAGCCCCTGGAAATGCGTGTGACCTGTGAAGTGGTGTATTGTCACAGTAGCTTATTTGAACTTGAGACCATTG
TAAGCATGACCCAACCTACCACCCTGTTTTTACATATCCAATTCCAGTAACCCTCAAATTCAATATTTTATTCAA
ACTCTGTTGAGGCATTTTACTAACCTTATACCCTTTTTGGCCTGAAGACATTTTAGAATTCCTAACAGAGTTTA
CTGTTGTTTAGAAATTTGCAAGGGCTTCTTTTCCGCAAATGCCACCAGCAGATTATAATTTTGTCGGCAATGCTA
TTATCTCTAATTAGTGCCACCAGACTAGACCTGTATCATTCATGGTATAAATTTTACTCTTCCAACATAACTACC
ATCTCTCTCTTAAAACGAGATCAGGTTAGCAAATGATGTAAAAGAAGCTTTATTGTCTAGTTGTTTTTTTTCCCC
CAAGACAAAGGCAAGTTTCCCTAAGTTTGAGTTGATAGTTATTAAAAAGAAACAAAACAAAAAAAAAAAGGCAAG
GCACAACAAAAAAATATCCTGGGCAATAAAAAAAAATATTTTAAACCAAAAAAAAAAAAAAAA

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FIGURE 1352

MSSHLVEPPPPLHNNNNNCEENEQSLPPPAGLNSSWVELPMNSSNGNDNGNGKNGGLEHVPSSSSIHNGDMEKIL
LDAQHESGQSSSRGSSHCDSPSPQEDGQIMFDVEMHTSRDHSSQSEEEVVEGEKEVEALKKSADWVSDWSSRPEN
IPPKEFHFRHPKRSVSLSMRKSGAMKKGGIFSAEFLKVFIPSLFLSHVLALGLGIYIGKRLSTPSASTY

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FIGURE 1353

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GGGTGGAGTGTAGGCCAGGGGGGTTGGCGGTGCCGTGTCATGGAGGCTCAGTCTCTGAGCAGCCATTGAAGGGGAA
GGAACTGCGGGTGTGTGTGTGTATGTGTGTGTATGTGTGTGCGCGCGTGCGTGCGTGTGTGTGCGCGCGCTAG
TGTGTGGACAAGGAGGTGGGGGCAGCTGAGTTAGAGTCCCAACTCTTGGACTCCATTTGCTATTCTCTTCTTTCT
CCCCCACACCTATCTGGTGGTGGTAGTGGGCGTTTATATTTGCGTTCCTTTTCATTCATTTCTAAATCTCTTAAA
AATTTTGGGTTGGGGGTATTGGGGAAGGCAGGAAAGGGAAAAGGAGAGTAGTAGCTGAAGAGCAAGAGGAGGAC
A
TGGAGATGAAGAAGAAGATTAACCTGGAGTTAAGGAACAGATCCCCGGAGGAGGTGACAGAGTTAGTCCTTGATA
ATTGCCTGTGTGTCAATGGGGAAATTGAAGGCCTGAATGATACTTTCAAAGAACTAGAATTTCTGAGTATGGCTA
ATGTGGAACTAAGTTCGCTGGCCCGGCTTCCCAGCTTAAATAAACTTCGAAAATTGGAGCTTAGTGATAATATAA
TTTCTGGAGGCTTGGAAGTCCTGGCAGAGAAATGTCCAAATCTTACCTACCTCAATCTGAGTGGAAACAAAATAA
AAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTTAAAAATTTGAAAAGTCTTGACCTGTTTAACTGTGAGATCA
CAAACCTGGAAGATTATAGAGAAAGTATTTTTGAACTACTGCAGCAAATCACATACTTAGATGGATTTGATCAGG
AGGATAATGAAGCGCCGGACTCTGAAGAGGAGGATGATGAGGATGGCGATGAAGATGATGAAGAGGAAGAGGAAA
ATGAAGCTGGTCCACCGGAAGGATATGAGGAAGAGGAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAG
ATGAAGATGAAGCAGGTTCAGAGTTGGGAGAGGGAGAAGAGGAAGTGGGCCTCTCATACTTAATGAAAGAAGAAA
TTCAGGATGAAGAAGATTATGATGACTATGTTGAAGAAGGGGAAGAAGAGGAAGAAGAGGAAGAAGGAGGTCTTC
GAGGGGAGAAGAGGAAACGAGATGCTGAAGACGATGGAGAGGAAGAAGATGACTAGATCATTCTAAGACCAGATT
CTCTAATGTTTCTGGGTGTGCAATAGAGTGATCACATCTTTGTTTCTTCATGTACGATAGCTATCCCTACAGAAG
ATAATGTGTAACTTTTTATAGGAAAAGTGTGGTTTTACTATTTTTGCCTTATCATTCCAAATAAGAACTAGTCTG
TTAATGATCATATTGTATGTAGAGAAAAATTTTCATTGACTCCCATTGTGGAATTCCCTAGCAATTTATTTAGAC
TTAATTTTTTAAATTCAAGCTTACTGTATTAGTCATTTTTAGCCCATAATTAAAACATGATCACTTTTACACAGG
TGTAGTATGGTGCATTTCATTCCTTATTTATAAATTAACTGAAATTACAGTTTGCTATAATATAAAATGACAATA
GTCTCTTGAGTGGTAAGTTGGTTATTTTTTTAGAGGTGATCCAGGAATCTTTAGTTTGAAGGCAGTTACCNNNNNN
NNNNNNNNNNNNNNNNNNNGACTAAGAGTGTTTGGTTGCTTTTTTGTCACAAGTAACTTGGAAAATAGAAGCAGAAT
AGTAAAGGTTCTATTCAGCAACATAGTTCATGGATTTTGTGGAGGTTCTATTCAGTAATATGGTTCATGGATTTA
GTGGTGACTGATAAGATTTTATTTTTGAAGGAAAAATTGCTTATACTAAGTCCAGAGACATGCAGGTGAGCCCTT
TTGTCAGGCTGCAAATCATGACATGCCGATGGTTGTTTATTTTGTTTTTAGGTGTGCATTCTTTTTCTTCTTAGC
AATTCCTTTATGATCACCTTCCCTTCTTGTTTCACTCCCTCCCGCTCTCTCAAAAGGAACTTGGGAAACTTGTGA
AACCCAGGAAAAACCTTTAGTCTTATACCTCAACTACCTTTCAGTCCTGTCTGGGTTTTAAATAAGTGAAGTAGAA
GAAATTGAGTATTTTCTGACATAAGAATATATTATCAATACAGTTTTATGCAGTAAGCTCTCCTTACCATAAATG
TTTCTTGGTTGACAACATCTAAGACAATATTAGTGGGATGAAGAAAGAAAAGCAGGGGTGCTTTTGGAAGCAGTG
TTAGTGTTCCTCAAAAGTCGGAACAATTGCCTGTTGATATATTAATAAGACATTAAAGTCAAATTTTAATGTTGG
CCTCTCAAATGATTTGGATACCACTCTGCAAAGTATTTCTAACCTTTAATTCCCAGTTTTAAAACAGATATAATA
ATAGCATTTAATTGGAATATACTAGGCAGCTGGAAAAGTATTTGAAACTAAATTGACATTAAAATTAAGATTTGT
TTTCAAGTGGATGTCCATTAAAAGTAGAAAAATATTTGGGATAAGTGAGTGTGTGTTTCCTTACATGGCTACTAA
ATAAAATATAATGAGTATACAAGTATATCTCCTCTTTTGCTATGGAGGCTCCATGTTCAAGGCAATGGCTTTTTA
AATCTTGGCTATCTAAAATTTTTTCCCTTTGTTTGAATATTTGTAAGTTTTTAAGAAGTTAGTGTCAGCAAATT
AATTGAAGTTATGCTTCTATACTGGGACATATTTAAATACTGAGTATAGTACTGCTGCTACTGCTTCTACAATGT
AAAATGTATGACTTGGTGTTTTAAAGTAAAAATTATGATGTTACTTGTGGAGAAACTAAAAATGTTGTACAACTG
ACCGAAAGAAAACCCTTGGGGATAAGTTTAGTGAGGGGATTGGAATCCCCAAAAAGATAACATTTTTCTTCTGCT
TTTAAAAACTGAAATTCCCTGTTCTAGTTCCTAACAATTCTCATTACATACTATGCCAGATTACAAAATACTTAT
TTTTAAAATGAAATCTATATATTGACTTTCTTATCAATCATCTTACTGTGCAATCAAAATTAGAGTACTTTGGTT
TGAAAACAACACTTAGAGCCTCCAGATAACTTTTAAGACTTATTTAGCTTTGTGGGTGGTATTTTCATGCAAATA
AGTAAGGGTGGGTTTTATATTTTGTAGAAGTTTTCGGTCCTATTTTAATGCTCTTTGTATGGCAGTATGTATATA
TTGTGTTAAGTTCCTCAAGAATCTCCTTAAAAAACTTTGAAGTTAATACTTTTGTGCAACTGTGTTTTGAATAAAG
CCATGACAGTGTTAAAAACAAACAAAAAAATTTGCAGTACTCCTGATTATTCTTTTATTGTTTTTGACTGTTCCC
TGTTTTTTTCTGTGACTGCTGTAACTTAAAGTTTTTGAAACTGAATTGCTTCAAATAAATTGAAGATTTGTTATA
ATGATTAAC
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FIGURE 1354

MEMKKKINLELRNRSPEEVTELVLDNCLCVNGEIEGLNDTFKELEFLSMANVELSSLARLPSLNKLRKLELSDNI
ISGGLEVLAEKCPNLTYLNLSGNKIKDLSTVEALQNLKNLKSLDLFNCEITNLEDYRESIFELLQQITYLDGFDQ
EDNEAPDSEEEDDEDGDEDDEEEEENEAGPPEGYEEEEEEEEEEDEDEDEDEDEAGSELGEGEEEVGLSYLMKEE
IQDEEDYDDYVEEGEEEEEEEEGGLRGEKRKRDAEDDGEEEDD

1494/2682
FIGURE 1355A

GCGGCCGCTGAATTCTAGGGCGGAGCGAAGAGAACCGGTCGCGGCAATCCTAGCGCGCAGCAGCAGCAGCAGCAG
CAGCACCCGCATCCGCTGCGGGAGTCCGAGCCGGAACCACACCCAAGTAGCTGCCCTTTCCTCTTCTGTCATCTC
ACCGCCCCACCACAGACCGCGTTCCCCGAGGAAACCGGCCGCCCACGCCCGGAGCATCCTCCCCTGTTGAGCGGG
CGCTGACGGACCCGGCGGC**ATG**ATGCGGCTGCGAGGCTCGGGGATGCTGCGGGACCTGCTCCTGCGGTCGCCCGC
CGGCGTGAGCGXGACTCTGCGGCGGGCACAGCCCTTGGTCACCCTGTGCCGGCGTCCCCGAGGCGGGGGACGGCC
GGCCGCGGGCCCGGCTGCCGCCGCGCGACTCCACCCGTGGTGGGGCGGGGCGGCTGGCCGGCGGAGCCCCTCGC
GCGGGGCCTGTCCAGCTCTCCTTCGGAGATCTTGCAGGAGCTGGGCAAGGGGAGCACGCATCCCCAGCCCGGGGT
GTCGCCACCCGCTGCCCCGGCGGCGCCCGGCCCCAAGGACGGCCCCGGGGAGACGGACGCGTTTGGCAACAGCGA
GGGCAAAGAGCTGGTGGCCTCAGGTGAAAACAAAATAAAACAGGGTCTGTTACCTAGCTTGGAAGATTTGCTGTT
CTATACAATTGCTGAAGGACAAGAGAAAATACCTGTTCATAAATTTATTACAGCACTCAAATCTACAGGATTGCG
AACGTCTGATCCCAGGTTGAAAGAGTGTATGGATATGTTAAGATTAACTCTTCAAACAACATCAGATGGTGTCAT
GCTAGACAAAGATCTTTTTAAAAAATGTGTTCAGAGCAACATTGTTTTGTTGACACAAGCATTTAGAAGAAAGTT
TGTGATTCCTGACTTTATGTCTTTTACCTCACACATTGATGAGTTATATGAAAGTGCTAAAAAGCAGTCTGGAGG
·AAAGGTTGCAGATTATATTCCTCAACTGGCCAAATTCAGTCCCGATTTGTGGGGTGTGTCTGTTGTACAGCAGA
TGGACAGAGGCATTCTACTGGAGATACCAAAGTTCCCTTCTGTCTTCAGTCCTGTGTAAAACCTTTGAAATATGC
CATTGCTGTTAATGATCTTGGAACTGAATATGTGCATCGATATGTTGGAAAAGAGCCGAGTGGACTAAGATTCAA
CAAACTATTTTTGAATGAAGATGATAAACCACATAATCCTATGGTAAATGCTGGAGCAATTGTTGTGACTTCACT
AATAAAGCAAGGAGTAAATAATGCTGAAAAATTTGACTATGTCATGCAGTTTTTGAATAAGATGGCTGGTAATGA
ATATGTTGGATTCAGTAATGCAACGTTTCAGTCTGAAAGAGAAAGTGGAGATCGAAATTTTGCAATAGGATATTA
CTTAAAAGAAAAGAAGTGTTTTCCAGAAGGCACAGACATGGTTGGTATATTAGACTTCTACTTCCAGCTGTGCTC
CATTGAAGTGACTTGTGAATCAGCCAGTGTGATGGCTGCGACACTGGCTAATGGTGGTTTCTGCCCAATTACTGG
TGAAAGAGTACTGAGCCCTGAAGCAGTTCGAAATACATTGAGTTTGATGCATTCCTGTGGCATGTATGACTTCTC
AGGGCAGTTTGCTTTCCATGTTGGTCTTCCTGCAAAATCTGGAGTTGCTGGGGGCATTCTTTTAGTTGTCCCCAA
TGTTATGGGTATGATGTGCTGGTCTCCTCCTCTGGATAAGATGGGCAACAGTGTTAAGGGAATTCACTTTTGTCA
CGATCTTGTTTCTCTGTGTAATTTCCATAACTATGATAATTTGAGACACTTTGCAAAAAAACTTGATCCTCGAAG
AGAAGGTGGTGATCAAAGGCATTCCTTTGGACCATTGGACTATGAAAGTCTCCAACAAGAACTTGCTTTAAAAGA
GACAGTATGGAAAAAAGTGTCACCTGAGTCAAATGAGGACATCTCTACAACTGTAGTATATAGAATGGAAAGTCT
GGGAGAGAAAAGC**TAA**AGAAATGGGTTCTAGTTTCAGAATGTTTCTTCATTTAATCTTTCAAACATCTTTAGCTT
TTTTTTGCAAGTTATAAATATTTATTTGAGGTATTTTTTGTTCTCAATCTTGGGTGCTGGAGCCATAAAGCTTTT
TTTTCCTTTTAATCTTTGTATAAAGGCAGTAGATTAAGAAGTGCATTTGTTGGTCTTTAAAAAGTATTTACAAGT
ACATAAATTTGCTTTATTTTTAAAAATACAAAAAGGAAAAATTTAAATTTTTTTTGATGTAATTAAAATGTTAAC
TATGTGGTCAGATAATCCCATTTTACAATAGTAACAGAAAATTGTAATTCTTAGTTCTAAAATTCACAAATTAAA
CTCATAAGCTTTGTTGCATTTTGTTTTTTCTTTTCCATTTTTAAAACTAATGTGATGTCTTTAGTGGCAATAGAA
GGTACTTCTATGCTAAATACAAAACTAAAAAGGCAAAATAATGAACCCCAAATTATTTTATTTAAAATAGCAGTG
GATTATAAAATTAGCTTGTGTTTACATTTATGCCATTTTTGGTGATAGATTGGCTTTACATTTTAAAAAATTTAT
TTAAAAATTTATCAAATGCTTTAAAATATGACTCCTACTTTTTTTATTTTGCAACTCCTCTGTTCTGTCAGAGTT
GTTATATACAGGAGTGTCTTATGTTACTAAAACATTCCAGCCAAAGAATTTCAGATGTGAGATAATGATGTTTCA
TCAATAAAAAGCTATAATGGTTAGTTACTCAGAAGGAGAAACAGTGAGTGTCTTCAAGTGAATTGTTCACCTAAA
CAATTTTATTTTCATATTATCCACATAACTTTTTCTATGTTATATTTAAATATGAATGGCAAATTTTGGTTTTTA
GCTTTTACATTTTATTATCTTAATTTTATAAATGCTAATATTTCTTTTGTGATAAGTTATAGCATCTCATAAAGT
TTGTTCTATTTGAAGTTTTTTAGAGTACTTGAGAAATGAATTTAGTCTGCAGGTAGTAAGTATGCTACTAAAATA
CGTTAGATCTAAATCCTTTTATTTGGTATAAAAATGCAATATTGAGAATCAAAACTTGTTTTTAAGAGAACTATA
GATTCTACACAACCTGATTTCAAGTAATTATTCATAGTATTTATAGTTGTCTTGGCAAAGTGATTGTAAAATTCT
GTAGGACCTATTCACACTTCTTCCTTCTTCCATATACTTCTCTGGTTTTCCCCATAGTTCCCCTATAATTTCAAG
TTTGTTGAAACCTGTTAATTTTAGTGGGGGATTAGAAGAAAAACTTGGTGGTTTCTTAGCATGATGGTGTATGTA
TGTGGTAATGGAAAGTCTGTAAAAGTAAATATAGTGTAGXAAAAAAGATTTCACTGAGTATTTTAGATACTAGTG
XAAATAAAGATAGAAAATCTTGATCATAATGTCTTAAGTTTGGGAACTGTGATATTAAGAAAAGAAATTCCCTTC
TAGAGGTGCTGGCCAAAAAGCCTTTTGGGCTAACTTAAGTATTAAATTTATATATTTAAATAATTATATTTTAAG

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FIGURE 1355B

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TTGTAGAGGATTTTCCCAAGGATTTTATGCTTACTTGAATGTTCTTTGAATGTTCAGATGCATATCCTAAXCTGG
ATGCTTCTCAAGGCCTTACTGCATATTTGTGTTGCATATTTATGTTAGTTGCACCAGGGCCATTTGTAGTTTGGG
CAACCGAATGCCTTAATTGGAAAAAAGGCATTGTGGTTTCCCCTATTATCTAAATTGTTACATTTTACCATTTCA
TTCCGAAGTTGGTTTTACTTTATTAAATGAAGATTTAGTTTTCATATCGTATACXTAGCTGTATAGATTTCAAAA
TTAGGTTGTTAATTTGTGTCACTTACTATTTTTGTGTTGGTAATGCTTTAAATGCATACTTAAAAATGAAGTACT
GTTATCTAAGCTACTGTGTTTAGAAAATGTTAAGAATGAGCAGAAATTTTTATAGAAAAGATAAACGGAAGAAGA
GATAAGATACTGCGAATAGGCCCTCAAACTTAAAAAAGAAAAAACTTTGCCAGTTTTAAGGACATATTTTGATTC
TTTCAGTATCTTAACACCTTTTTAAACAAAGTTCTTGATAGTACCACTATTATTGGGTTTGTTTTATGCCATTAT
TGATTCTTGATATTCAAGCATTTACAATGTAGCATATTTGATTTTCTTTTTTCTTTCTTTTTTTGGCATGTTTTT
AGCATAAATGTTGCATTTTATCTTAGTGTTTGGATGAAAACATTTGTGTTGTTTAGCTTTCATTTGCTTTGTATA
TTTAATAATGTACCTTTATTTTCCAGTATGCCTACATTTTGTATTGCACAATAAATTTATTTTAAGCTGAAAAAA
AAAAAAAAAAAA
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FIGURE 1356

MMRLRGSGMLRDLLLRSPAGVSXTLRRAQPLVTLCRRPRGGGRPAAGPAAAARLHPWWGGGGWPAEPLARGLSSS
PSEILQELGKGSTHPQPGVSPPAAPAAPGPKDGPGETDAFGNSEGKELVASGENKIKQGLLPSLEDLLFYTIAEG
QEKIPVHKFITALKSTGLRTSDPRLKECMDMLRLTLQTTSDGVMLDKDLFKKCVQSNIVLLTQAFRRKFVIPDFM
SFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTADGQRHSTGDTKVPFCLQSCVKPLKYAIAVNDL
GTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMVNAGAIVVTSLIKQGVNNAEKFDYVMQFLNKMAGNEYVGFSN
ATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDFYFQLCSIEVTCESASVMAATLANGGFCPITGERVLSP
EAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVAGGILLVVPNVMGMMCWSPPLDKMGNSVKGIHFCHDLVSLC
NFHNYDNLRHFAKKLDPRREGGDQRHSFGPLDYESLQQELALKETVWKKVSPESNEDISTTVVYRMESLGEKS

1497/2682
FIGURE 1357

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AAGATCTAAAAACGGACATCTCCACCGTGGGTGGCTCCTTTTTCTTTTTCTTTTTTTCCCACCCTTCAGGAAGTG
GACGTTTCGTTATCTTCTGATCCTTGCACCTTCTTTTGGGGAAACGGGGCCCTTCTGCCCAGATCCCCTCTCTTT
TCTCGGAAAACAAACTACTAAGTCGGCATCCGGGGTAACTACAGTGGAGAGGGTTTCCGCGGAGACGCGCCGCCG
GACCCTCCTCTGCACTTTGGGGAGGCGTGCTCCCTCCAGAACCGGCGTTCTCCGCGCGCAAATCCCGGCGACGCG
GGGTCGCGGGGTGGCCGCCGGGGCAGCCTCGTCTAGCGCGCGCCGCGCAGACGCCCCCGGAGTCGCCAGCTACCG
CAGCCCTCGCCGCCCAGTGCCCTTCGGCCTCGGGGCGGGCGCCTGCGTCGGTCTCCGCGAAGCGGGAAAGCGCGG
CGGCCGCCGGGATTCGGGCGCCGCGGCAGCTGCTCCGGCTGCCGGCCGGCGGCCCCGCGCTCGCCCGCCCCGCTT
CCGCCCGCTGTCCTGCTGCACGAACCCTTCCAACTCTCCTTTCCTCCCCCACCCTTGAGTTACCCCTCTGTCTTT
CCTGCTGTTGCGCGGGTGCTCCCACAGCGGAGCGGAGATTACAGAGCCGCCGGG**ATG**CCCCAACTCTCCGGAGGA
GGTGGCGGCGGCGGGGGGGACCCGGAACTCTGCGCCACGGACGAGATGATCCCCTTCAAGGACGAGGGCGATCCT
CAGAAGGAAAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAAGGCGATTTAGCTGACATCAAGTCTTCCTTG
GTGAACGAGTCTGAAATCATCCCGGCCAGCAACGGACACGAGGTGGCCAGACAAGCACAAACCTCTCAGGAGCCC
TACCACGACAAGGCCAGAGAACACCCCGATGACGGAAAGCATCCAGATGGAGGCCTCTACAACAAGGGACCCTCC
TACTCGAGTTATTCCGGGTACATAATGATGCCAAATATGAATAACGACCCATACATGTCAAATGGATCTCTTTCT
CCACCCATCCCGAGAACATCAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCGGTCCATCCTCTCACCCCCCTC
ATCACTTACAGTGACGAGCACTTTTCTCCAGGATCACACACCGTCACACATCCCATCAGATGTCAACTCCAAACAA
GGCATGTCCAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGTCTCCGGGTGGTGTTGGACAGATC
ACCCCACCTCTTGGCTGGCAAGGTCAGCCTGTATATCCCATCACGGGTGGATTCAGGCAACCCTACCCATCCTCA
CTGTCAGTCGACACTTCCATGTCCAGGTTTTCCCATCATATGATTCCCGGTCCTCCTGGTCCCCACACAACTGGC
ATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACACTGACAGTGACCTAATGCACGTG
AAGCCTCAGCATGAACAGAGAAAGGAGCAGGAGCCAAAAAGACCTCACATTAAGAAGCCTCTGAATGCTTTTATG
TTATACATGAAAGAAATGAGAGCGAATGTCGTTGCTGAGTGTACTCTAAAAGAAAGTGCAGCTATCAACCAGATT
CTTGGCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAATTAGCACGGAAAGAAAGACAG
CTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGTAAGAAAAAGAAGAGGAAGAGAGAGAAA
CTACAGGAATCTGCATCAGGTACAGGTCCAAGAATGACAGCTGCCTACATC**TGA**ACATGGTGGAAAACGAAGCT
CATTCCCAACGTGCAAAGCCAAGGCAGCGACCCCAGGACCTCTTCTGGAGATGGAAGCTTGTTGAAAACCCAGAC
TGTCTCCACGGCCTGCCCAGTCGACGCCAAAGGAACACTGACATCAATTTTACCCTGAGGTCACTGCTAGAGACG
CTGATCCATAAAGACAATCACTGCCAACCCCTCTTTCGTCTACTGCAAGAGCCAAGTTCCAAAATAAAGCATAAA
AAGGTTTTTTAAAAGGAAATGTAAAAGCACATGAGAATGCTAGCAGGCTGTGGGGCAGCTGAGCAGCTTTTCTCC
CCCCATATCTGCGTGCACTTCCCAGAGCATCTTGCATCCAAACCTGTAACCTTTCGGCAAGGACGGTAACTTGGC
TGCATTTGCCTGTCATGCGCAACTGGAGCCAGCAACCAGCTATCCATCAGCACCCCAGTGGAGGAGTTCATGGAA
GAGTTCCCTCTTTGTTTCTGCTTCATTTTTCTTTCTTTTCTTTTCTCCTAAAGCTTTTATTTAACAGTGCAAAAG
GATCGTTTTTTTTTGCTTTTTTAAACTTGAATTTTTTTAATTTACACTTTTTAGTTTTAATTTTCTTGTATATTT
TGCTAGCTATGAGCTTTTAAATAAAATTGAAAGTTCTGGAAAAGTTTGAAATAATGACATAAAAAGAAGCCTTCT
TTTTCTGAGACAGCTTGTCTGGTAAGTGGCTTCTCTGTGAATTGCCTGTAACACATAGTGGCTTCTCCGCCCTTG
TAAGGTGTTCAGTAGAGCTAAATAAATGTAATAGCCAAACCCCACTCTGTTGGTAGCAATTGGCAGCCCTATTTC
AGTTTATTTTTTCTTCTGTTTCTTCTTTTCTTTTTTAAACAGTAAACCTTAACAGATGCGTTCAGCAGACTGG
TTTGCAGTGAATTTTCATTTCTTTCCTTATCACCCCTTGTTGTAAAAAGCCCAGCACTTGAATTGTTATTACTT
TAAATGTTCTGTATTTGTATCTGTTTTTATTAGCCAATTAGTGGGATTTTATGCCAGTTGTTAAAATGAGCATTG
ATGTACCCATTTTTTAAAAAAAGCAAGCACAGCCTTTGCCCAAAACTGTCATCCTAACGTTTGTCATTCCAGTTTG
AGTTAATGTGCTGAGCATTTTTTTAAAAGAAGCTTTGTAATAAAACATTTTTAAAAATTGTCATTTAAAAAAAAA
AAAAAAAAA
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FIGURE 1358

MPQLSGGGGGGGGGDPELCATDEMIPFKDEGDPQKEKIFAEISHPEEEGDLADIKSSLVNESEIIPASNGHEVARQ
AQTSQEPYHDKAREHPDDGKHPDGGLYNKGPSYSSYSGYIMMPNMNNDPYMSNGSLSPPIPRTSNKVPVVQPSHA
VHPLTPLITYSDEHFSPGSHPSHIPSDVNSKQGMSRHPPAPDIPTFYPLSPGGVGQITPPLGWQGQPVYPITGGF
RQPYPSSLSVDTSMSRFSHHMIPGPPGPHTTGIPHPAIVTPQVKQEHPHTDSDLMHVKPQHEQRKEQEPKRPHIK
KPLNAFMLYMKEMRANVVAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKK
KKRKREKLQESASGTGPRMTAAYI

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FIGURE 1359

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GTGGGACTGGGATCATCAGTCTCTTCTGTGCACACTATGCGCGGCCTAGAGCGGTGTACGCGGTGGAGGCCAGTG
AGATGGCACAGCACACGGGGCAGCTGGTCCTGCAGAACGGCTTTGCTGACATCATCACCGTGTACCAGCAGAAGG
TGGAGGATGTGGTGCTGCCCGAGAAGGTGGACGTGCTGGTGTCTGAGTGGATGGGGACCTGCCTGCTGTTTGAGT
TCATGATCGAGTCCATCCTGTATGCCCGGGATGCCTGGCTGAAGGAGGACGGGGTCATTTGGCCCACCATGGCTG
CGTTGCACCTTGTGCCCTGCAGTGCTGATAAGGATTATCGTAGCAAGGTGCTCTTCTGGGACAACGCGTACGAGT
TCAACCTCAGCGCTCTGAAGTAAGTGTCCACAGCTGGGACTGGCACCGTCTTGTGGGGCCTCCTGGTCCACAGTC
TGCAGGTGGGCCAAGGCCCTGGGAGATCCCATACGACGGTTGGATAAATGAGGGTACCTGTGCACCCAGATAGGA
CAATCTGTTGTAGCATTGGAGTAATTAAAGCAGTATGGTGCTATAACAAGACAGATGGGCAGAGCAGGGTAGAAT
GCAAGGAACAAAAATTTTCGTATGTGAAAAAGGTGGCATTACGATTAGGAGGGAGTGAGGGCCAAGTCAGCAAAT
TATTCTGGAGCAGTTGATTAGCCCTTGTTCTCTCACGCCATACGTGAAAACTTAATTCTGCATGGAATCAGCGTC
AGCGACAGACATCCATGGGGGCCTGTGTGCACCATCTTAGGTGGAGAAATGAGCAGCAACAATGGATGGAATGGA
CCCTGGGCTAGATAGAATCTGGCAGTCTATGTGGCAGAAATCAGCAAAAACACGATTGTAAAAGCAAACAAGTAA
TTAGAGAAATCACGTGCTGTCAGGTCTTGGAATCAATTAGAAAGAGATGACTAGCCAGATGGAATTGCAGCCCAA
TCATGTGAACAGGCAAACCGCAAAAAATAAATAAAATTACCAATAAATACATGAAAAATTATAATGTTGTTAGTA
GTTAAAATGCGAATTAAAATACATGCTGTTTTCCCTACCAGACAAGCAAAGAGTAAATTAAAATAGTAGCCCAGG
CTTGCCTGGCAGTGGCAGGGAGGTGTGGCTGCCAGGGCCTTAGAGGTTGGCATCAGGCTGCCCACCCCAGTCACT
GCCAGAGCCTCCCACCTGAGTGTTCCTCCCGGCACTGGAAGCCAGTGGCCGTCCAGAGGAACGTGATTGAATTGC
TGTATATCCATCTGGTGGAGCACTGCTGTGTGTCTGTTAAAAAAGAAACCATAGGTTTTTAGGGATATGTAATGA
TATTTAGAAAGGGTTTAAGAGACAGTAAAGCTTGGCAGAATAAACCGTGTATACAGAATGGATGTTTGCTTGCAT
AAATAAATTTATATAAATATGTCTGGGGGATAAAAATAAGTATATCACAATGCTAAGACAGGCATATGGGGAATT
TAAGCTTTTCTTTATACTTGTCCATAGTTTCCAATTTTTAAATTTGTAATTTTTTATCAGAAAAATAAATGTGTA
AATATAGTGGAATCTTTATTAAAACATTCACTTTTATTTGCTAAAAAAAAAAAAAAAAAAAA
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FIGURE 1360

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GGCACGAGGATTTCCTCATCGTCAAGCTTTGTTCCTCGTGGGGGCTAGAAATCTCTTTCCAGTTCCAGATTGTGA
AGGGTTCCTGAGTAAGCAGCGTGTCTCCATCCCCCTCTCTAGGGGCTCTTGGATGGACCTTGCACTCTAGAAGGG
ACAATGGACTTCTGGCTTTGGCCACTTTACTTCCTGCCAGTATCGGGGGCCCTGAGGATCCTCCCAGAAGTAAAG
GTAGAGGGGGAGCTGGGCGGATCAGTTACCATCAAGTGCCCACTTCCTGAAATGCATGTGAGGATATATCTGTGC
CGGGAGATGGCTGGATCTGGAACATGTGGTACCGTGGTATCCACCACCAACTTCATCAAGGCAGAATACAAGGGC
CGAGTTACTCTGAAGCAATACCCACGCAAGAATCTGTTCCTAGTGGAGGTAACACAGCTGACAGAAAGTGACAGC
GGAGTCTATGCCTGCGGAGCGGGCATGAACACAGACCGGGGAAAGACCCAGAAAGTCACCCTGAATGTCCACAGT
GAATACGAGCCATCATGGGAAGAGCAGCCAATGCCTGAGACTCCAAAATGGTTTCATCTGCCCTATTTGTTCCAG
ATGCCTGCATATGCCAGTTCTTCCAAATTCGTAACCAGAGTTACCACACCAGCTCAAAGGGGCAAGGTCCCTCCA
GTTCACCACTCCTCCCCCACCACCCAAATCACCCACCGCCCTCGAGTGTCCAGAGCATCTTCAGTAGCAGGTGAC
AAGCCCCGAACCTTCCTGCCATCCACTACAGCCTCAAAAATCTCAGCTCTGGAGGGGCTGCTCAAGCCCCAGACG
CCCAGCTACAACCACCACACCAGGCTGCACAGGCAGAGAGCACTGGACTATGGCTCACAGTCTGGGAGGGAAGGC
CAAGGATTTCACATCCTGATCCCGACCATCCTGGGCCTTTTCCTGCTGGCACTTCTGGGGCTGGTGGTGAAAAGG
GCCGTTGAAAGGAGGAAAGCCCTCTCCAGGCGGGCCCGCCGACTGGCCGTGAGGATGCGCGCCCTGGAGAGCTCC
CAGAGGCCCCGCGGGTCGCCGCGACCGCGCTCCCAAAACAACATCTACAGCGCCTGCCCGCGGCGCGCTCGTGGA
GCGGACGCTGCAGGCACAGGGGAGGCCCCCGTTCCCGGCCCCGGAGCGCCGTTGCCCCCCGCCCCGCTGCAGGTG
TCTGAATCTCCCTGGCTCCATGCCCCATCTCTGAAGACCAGCTGTGAATACGTGAGCCTCTACCACCAGCCTGCC
GCCATGATGGAGGACAGTGATTCAGATGACTACATCAATGTTCCTGCCTGACAACTCCCCAGCTATCCCCCAACC
CCAGGCTCGGACTGTGGTGCCAAGGAGTCTCATCTATCTGCTGATGTCCAATACCTGCTTCATGTGTTCTCAGAG
CCCTCATCACTTCCCATGCCCCATCTCGACTCCCATCCCCATCTATCTGTGCCCTGAGCATGGCTCTGCCCCCAG
GTCGTCTTGCACACCTTGGCAGCCCCCTGTAGTTGACAGGTAAGCTGTAGGCATGTAGAGCAATTGTCCCAATGC
CACTTGCTTCCTTTCCAAGCCGTCGAACAGACTGTGGGATTTGCAGAGTGTTTCTTCCATGTCTTTGACCACAGG
GTTGTTGCTGCCCAGGCTCTAGATCACATGGCATCAGGCTGGGGCAGAGGCATAGCTATTGTCTCGGGCATCCTT
CCCAGGGTTGGGTCTTACACAAATAGAAGGCTCTTGCTCTGAGTTATGTGACATGCCTCAGCCCCATGGACTAAG
CAGGGGTCTGGTATAAAAACACTCCTGGAAACGCCTTTGCCCTGATCCAAATGTTAGCACTTGCTAGTGAACGTC
TACTTATCTCAAGTTCTATGCTAAAGGCAATTTATCTTGATGTGATGATAAACCAAACTTATTAGCAAGATATGC
ATATATATCAAAAAAAAAAAAAAAAAAAA
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FIGURE 1361

MDFWLWPLYFLPVSGALRILPEVKVEGELGGSVTIKCPLPEMHVRIYLCREMAGSGTCGTVVSTTNFIKAEYKGR
VTLKQYPRKNLFLVEVTQLTESDSGVYACGAGMNTDRGKTQKVTLNVHSEYEPSWEEQPMPETPKWFHLPYLFQM
PAYASSSKFVTRVTTPAQRGKVPPVHHSSPTTQITHRPRVSRASSVAGDKPRTFLPSTTASKISALEGLLKPQTP
SYNHHTRLHRQRALDYGSQSGREGQGFHILIPTILGLFLLALLGLVVKRAVERRKALSRRARRLAVRMRALESSQ
RPRGSPRPRSQNNIYSACPRRARGADAAGTGEAPVPGPGAPLPPAPLQVSESPWLHAPSLKTSCEYVSLYHQPAA
MMEDSDSDDYINVPA

FIGURE 1362

CGGACGCGTGGGGGAGAGGCTGTTTACCAGAACAGCATAACAAGGGCAGGTCTGACTGCAAGGCTGGGACTGGGAG
GCAGAGCCGCCGCCAAGGGGGCCTCGGTTAAACACTGGTCGTTCAATCACCTGCAAGACGAAGGAGGCAAGG**ATG**

CTGTTGGCCTGGGTACAAGCATTCCTCGTCAGCAACATGCTCCTAGCAGAAGCCTATGGATCTGGAGGCTGTTTC
TGGGACAACGGCCACCTGTACCGGGAGGACCAGACCTCCCCCGCGCCGGGCCTCCGCTGCCTCAACTGGCTGGAC
GCGCAGAGCGGGCTGGCCTCGGCCCCCGTGTCGGGGGCCGGCAATCACAGTTACTGCCGAAACCCGGACGAGGAC
CCGCGCGGGCCCTGGTGCTACGTCAGTGGCGAGGCCGGCGTCCCTGAGAAACGGCCTTGCGAGGACCTGCGCTGT
CCAGAGACCACCTCCCAGGCCCTGCCAGCCTTCACGACAGAAATCCAGGAAGCGTCTGAAGGGCCAGGTGCAGAT
GAGGTGCAGGTGTTCGCTCCTGCCAACGCCCTGCCCGCTCGGAGTGAGGCGGCAGCTGTGCAGCCAGTGATTGGG
ATCAGCCAGCGGGTGCGGATGAACTCCAAGGAGAAAAAGGACCTGGGAACTCTGGGCTACGTGCTGGGCATTACC
ATGATGGTGATCATCATTGCCATCGGAGCTGGCATCATCTTGGGCTACTCCTACAAGAGGGGGAAGGATTTGAAA
GAACAGCATGATCAGAAAGTATGTGAGAGGGAGATGCAGCGAATCACTCTGCCCTTGTCTGCCTTCACCAACCCC
ACCTGTGAGATTGTGGATGAGAAGACTGTCGTGGTCCACACCAGCCAGACTCCAGTTGACCCTCAGGAGGGCAGC
ACCCCCCTTATGGGCCAGGCCGGGACTCCTGGGGCC**TGA**GCCCCCCCAGTGGGCAGGAGCCCATGCAGACACTGG
TGCAGGACAGCCCACCCTCCTACAGCTAGGAGGAACTACCACTTTGTGTTCTGGTTAAAACCCTACCACTCCCCC
GCTTTTTTGGCGAATCCTAGTAAGAGTGACAGAAGCAGGTGGCCCTGTGGGCTGAGGGTAAGGCTGGGTAGGGTC
CTAACAGTGCTCCTTGTCCATCCCTTGGAGCAGATTTTGTCTGTGGATGGAGACAGTGGCAGCTCCCACAGTGAT
GCTGCTGCTAAGGGCTTCCAAACATTGCCTGCACCCCTGGAACTGAACCAGGGATAGACGGGGAGCTCCCCCAGG
CTCCTCTGTGCTTTACTAAGATGGCCTCAGTCTCCACTGTGGGCTTGAGTGGCATACACTGTTATTCATGGTTAA
GGTAAAGCAGGTCAAGGGATGGCATTGAAAAAATATATTTAGTTTTTAAAATATTTGGGATGGAACTCCCTACTG
ACCTCTGAGAACTGGAAACGAGTTTGTACAGAAGTCAGAACTTTGGGTTGGGAATGAGATCTAGGTTGTGGCTGC
TGGTATGCTTCAGCTTGCTGGCAATGATGTGCCTTGACAACCGTGGGCCAGGCCTGGGCCCAGGGACTCTTCCTG
TTTCATAAGGAAAGGAAGAATTGCACTGAGCATTCCACTTAGGAAGAGGATAGAGAAGGATCTGCTCCGCCTTTG
GCCACAGGAGCAGAGGCAGACCTGGGATGCCCCAGTTTCTCTTCAGGGATGGATAGTGACCTGTCTTCATTTTGC
ACAGGTAAGAGAGTAGTTAGCTAACCTATGGGAATTATACTGTGGGGCCTTGTGAGCTGCTTCTAAGAGGCTAAC
CTGGAAACTAAGCTCAGAGGCAAGGTAATAAAGCACTTCAGGGCTTGCTCCCCAAGTGGGCCTGATTTAGCAGGT
GGTCCTGCGGGCGTCCAGGTCAGCACCTTCCTGTAGGGCACTGGGGCTAGGGTCACAGCCCCTAACTCATAAAGC
AATCAAAGAACCATTAGAAAGGGCTCATTAAGCCTTTTGGACACAGGACCCCAGAGAGGAAAAAGTGACTTGCCC
AAGGTCGTAAGCAAGCTACTGGCATGGCAAGAGCCCAGCTTCCTGACGGAGCGCAACATTTCTCCACTGCACTGT
GCTAGCAGCTCAGCAGGGCCTCTAACCTGTGATGTCACACTCAAGAGGCCTTGGCAGCTCCTAGCCATAGAGCTT
CCTTTCCAGAACCCTTCCACTGCCCAATGTGGAGACAGGGGTTAGTGGGGCTTTCTATGGAGCCATCTGCTTTGG
GGACCTAGACCTCAGGTGGTCTCTTGGTGTTAGTGATGCTGGAGAAGAGAATATTACTGGTTTCTACTTTTCTAT
AAAGGCATTTCTCTATATACATGTTTTATATACCTCATTCTGACACCTGCATATAGTGTGGGAAATTGCTCTGCA
TTTGACTTAATTAAAAAAAAAAAAAAAA

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FIGURE 1363

MLLAWVQAFLVSNMLLAEAYGSGGCFWDNGHLYREDQTSPAPGLRCLNWLDAQSGLASAPVSGAGNHSYCRNPDE
DPRGPWCYVSGEAGVPEKRPCEDLRCPETTSQALPAFTTEIQEASEGPGADEVQVFAPANALPARSEAAAVQPVI
GISQRVRMNSKEKKDLGTLGYVLGITMMVIIAIGAGIILGYSYKRGKDLKEQHDQKVCEREMQRITLPLSAFTN
PTCEIVDEKTVVVHTSQTPVDPQEGSTPLMGQAGTPGA

FIGURE 1364

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AAAATAAAGATGACTATATCAGAGACTTGAAAAGGATCATTCTCTGTTTTCTGATAGTGTATATGGCCATTTTAG
TGGGCACAGATCAGGATTTTTACAGTTTACTTGGAGTGTCCAAAACTGCAAGCAGTAGAGAAATAAGACAAGCTT
TCAAGAAATTGGCATTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATGGCGATTTTTTAAAAA
TAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAAAGTATGACAAATATGGAGAAAAGGGACTTG
AGGATAATCAAGGTGGCCAGTATGAAAGCTGGAACTATTATCGTTATGATTTTGGTATTTATGATGATGATCCTG
AAATCATAACATTGGAAAGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAACTGTGGTTTGTAAATTTTTACT
CCCCAGGCTGTTCACACTGCCATGATTTAGCTCCCACATGGAGAGACTTTGCTAAAGAAGTGGATGGGTTACTTC
GAATTGGAGCTGTTAACTGTGGTGATGATAGAATGCTTTGCCGAATGAAAGGAGTCAACAGCTATCCCAGCCTCT
TCATTTTTCGGTCTGGAATGGCCCCAGTGAAATATCATGGAGACAGATCAAAGGAGAGTTTAGTGAGTTTTGCAA
TGCAGCATGTTAGAAGTACAGTGACAGAACTTTGGACAGGAAATTTTGTCAACTCCATACAAACTGCTTTTGCTG
CTGGTATTGGCTGGCTGATCACTTTTTGTTCAAAAGGAGGAGATTGTTTGACTTCACAGACACGACTCAGGCTTA
GTGGCATGTTGGATGGTCTTGTTAATGTAGGATGGATGGACTGTGCCACCCAGGATAACCTTTGTAAAAGCTTAG
ATATTACAACAAGTACTACTGCTTATTTTCCTCCTGGAGCCACTTTAAATAACAAAGAGAAAAACAGTATTTTGT
TTCTCAACTCATTGGATGCTAAAGAAATATATTTGGAAGTAATACATAATCTTCCAGATTTTGAACTACTTTCGG
CAAACACACTAGAGGATCGTTTGGCTCATCATCGGTGGCTGTTATTTTTTCATTTTGGAAAAAATGAAAATTCAA
ATGATCCTGAGCTGAAAAAACTAAAAACTCTACTTAAAAATGATCATATTCAAGTTGGCAGGTTCGACTGTTCCT
CTGCACCAGACATCTGTAGTAATCTGTATGTTTTTCAGCCGTCTCTAGCAGTATTTAAAGGACAAGGAACCAAAG
AATATGAAATTCATCATGGAAAGAAGATTCTATATGATATACTTGCCTCTGCCAAAGAAAGTGTGAATTCTCATG
TTACCACGCTTGGACCTCAAAAATTTTCCTGCCAATGACAAAGAACCATGGCTTGTTGATTTCTTTGCCCCCTGGT
GTCCACCATGTCGAGCTTTACTACCAGAGTTACGAAGAGCATCAAATCTTCTTTATGGTCAGCTTAAGTTTGGTA
CACTAGATTGTACAGTTCATGAGGGACTCTGTAACATGTATAACATTCAGGCTTATCCAACAACAGTGGTATTCA
ACCAGTCCAACATTCATGAGTATGAAGGACATCACTCTGCTGAACAAATCTTGGAGTTCATAGAGGATCTTATGA
ATCCTTCAGTGGTCTCCCTTACACCCACCACCTTCAACGAACTAGTTACACAAAGAAAACACAACGAAGTCTGGA
TGGTTGATTTCTATTCTCCGTGGTGTCATCCTTGCCAAGTCTTAATGCCAGAATGGAAAAGAATGGCCCGGACAT
TAACTGGACTGATCAACGTGGGCAGTATAGATTGCCAACAGTATCATTCTTTTTGTGCCCAGGAAAACGTTCAAA
GATACCCTGAGATAAGATTTTTTCCCCCGAAATCAAATAAAGCTTATCATTATCACAGTTACAATGGTTGGAATA
GGGATGCTTATTCCCTGAGAATCTGGGGTCTAGGATTTTTACCTCAAGTATCCACAGATCTAACACCTCAGACTT
TCAGTGAAAAAGTTCTACAAGGGAAAAATCATTGGGTGATTGATTTCTATGCTCCTTGGTGTGGACCTTGCCAGA
ATTTTGCTCCAGAATTTGAGCTCTTGGCTAGGATGATTAAAGGAAAAGTGAAAGCTGGAAAAGTAGACTGTCAGG
CTTATGCTCAGACATGCCAGAAAGCTGGGATCAGGGCCTATCCAACTGTTAAATTTTATTTCTACGAAAGAGCAA
AGAGAAATTTTCAAGAAGAGCAGATAAATACCAGAGATGCAAAAGCAATCGCTGCCTTAATAAGTGAAAAATTGG
AAACTCTCCGAAATCAAGGCAAGAGGAATAAGGATGAACTTTGATAATGTTGAAGATGAAGAAAAAGTTTAAAAG
AAATTCTGACAGATGACATCAGAAGACACCTATTTAGAATGTTACATTTATGATGGGAATGAATGAACATTATCT
TAGACTTGCAGTTGTACTGCCAGAATTATCTACAGCACTGGTGTAAAAGAAGGGTCTGCAAACTTTTTCTGTAAA
GGGCCGGTTTATAAATATTTTAGACTTTGCAGGCTATAATATATGGTTCACACATGAGAAC
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FIGURE 1365

MAILVGTDQDFYSLLGVSKTASSREIRQAFKKLALKLHPDKNPNNPNAHGDFLKINRAYEVLKDEDLRKKYDKYG
EKGLEDNQGGQYESWNYYRYDFGIYDDDPEIITLERREFDAAVNSGELWFVNFYSPGCSHCHDLAPTWRDFAKEV
DGLLRIGAVNCGDDRMLCRMKGVNSYPSLFIFRSGMAPVKYHGDRSKESLVSFAMQHVRSTVTELWTGNFVNSIQ
TAFAAGIGWLITFCSKGGDCLTSQTRLRLSGMLDGLVNVGWMDCATQDNLCKSLDITTSTTAYFPPGATLNNKEK
NSILFLNSLDAKEIYLEVIHNLPDFELLSANTLEDRLAHHRWLLFFHFGKNENSNDPELKKLKTLLKNDHIQVGR
FDCSSAPDICSNLYVFQPSLAVFKGQGTKEYEIHHGKKILYDILASAKESVNSHVTTLGPQNFPANDKEPWLVDF
FAPWCPPCRALLPELRRASNLLYGQLKFGTLDCTVHEGLCNMYNIQAYPTTVVFNQSNIHEYEGHHSAEQILEFI
EDLMNPSVVSLTPTTFNELVTQRKHNEVWMVDFYSPWCHPCQVLMPEWKRMARTLTGLINVGSIDCQQYHSFCAQ
ENVQRYPEIRFFPPKSNKAYHYHSYNGWNRDAYSLRIWGLGFLPQVSTDLTPQTFSEKVLQGKNHWVIDFYAPWC
GPCQNFAPEFELLARMIKGKVKAGKVDCQAYAQTCQKAGIRAYPTVKFYFYERAKRNFQEEQINTRDAKAIAALI
SEKLETLRNQGKRNKDEL

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FIGURE 1366

CTGAATTACGAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAA**ATG**TCTGTACAGCCAACGGTTTCCCTT
GGGGGCTTTGAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAG
CACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTATATCT
GGAAAGCGGTCTGCCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAAGTAAAACTTGCTGCTGATGAAGATGAT
GACGATGATGATGAAGAGGATGATGATGAAGATGATGATGATGATTTTGATGATGAGGAAGCTGAAGAAAAA
GCGCCAGTGAAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCA
AAACCATCATCAACACCAAGATCAAAAGGACAAGAATCCTTCAAGAAACAGGAAAAAACTCCTAAAACACCAAAA
GGACCTAGTTCTGTAGAAGACATTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGCGCAT**TGA**ACAGTCCTGGGC
ACTACATGTAAATTAAGCCCAAAGATGGGGAGAAAGGAAAAGGAGAGACAAATATAGTCCATACTGAGTGTCATC
AACAATCCAGACTGAAGTCTTCTATTTTAATCTCAATCCCCTTTTCTGATTTGCCACCCATGCCTCTTCAGGCTG
GAAACAATCTCTTGGTTCCCTAAAGCACTTTCTTCTGACTGCTGTGATTCAGTGAACCTTGCCCTTTGCTTTCTA
TTACTTGTGCATTTGCCTCACCTGACAATGTTTTAAATCGCCTTTGTATCTCCTTAGCTGCTCAATAAATATTTG
AATGCATCAAAAAAAAAAAAAAAAAAA

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FIGURE 1367

MSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAESEDEEEEDVKLLSISGKRSAPGGGSKVPQKK
VKLAADEDDDDDDEEDDDEDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQESFKK
QEKTPKTPKGPSSVEDIKAKMQASIEKAH

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FIGURE 1368

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AAGCCGTGCGCTCCCGGGCTGCGAGGTCTGGCTAGGCTACGGGCCACGCGCCGCCGCCGCTGCCGCCGCCACTGT
CCTCTTCGGAGGCGCGGGCCCGACGGAAACCATGTTTGTGGCTCGCAGCATCGCGGCGGACCACAAGGATCTCAT
CCACGATGTCTCTTTCGACTTCCACGGGCGGCGGATGGCAACCTGCTCCAGCGATCAGAGCGTTAAGGTCTGGGA
TAAAAGTGAAAGTGGTGATTGGCATTGTACAGCTAGCTGGAAGACACATAGTGGATCTGTATGGCGTGTGACATG
GGCCCATCCTGAATTTGGGCAAGTTTTGGCTTCCTGTTCTTTTGACCGAACAGCTGCTGTATGGGAAGAAATAGT
AGGAGAATCAAATGATAAACTGCGAGGACAGAGCCACTGGGTTAAAAGGACAACTCTGGTGGATAGCAGAACATC
TGTTACTGATGTGAAGTTTGCTCCCAAGCACATGGGTCTTATGTTAGCAACCTGTTCCGCAGATGGTATAGTAAG
AATCTATGAGGCACCAGATGTTATGAATCTCAGCCAGTGGTCTTTGCAGCATGAGATCTCATGTAAGCTAAGCTG
TAGTTGCATTTCTTGGAACCCTTCAAGCTCTCGTGCTCATTCCCCCATGATCGCCGTAGGAAGTGATGACAGTAG
CCCCAACGCAATGGCCAAGGTTCAGATTTTTGAATATAATGAAAACACCAGGAAATATGCAAAAGCTGAAACTCT
TATGACAGTCACTGATCCTGTTCATGATATTGCATTCGCTCCAAATTTGGGAAGATCTTTCCATATTCTAGCAAT
AGCGACCAAAGATGTGAGAATTTTTACATTAAAGCCTGTGAGGAAAGAACTGACTTCCTCTGGTGGGCCAACAAA
GTTTGAAATCCATATAGTGGCTCAGTTCGATAATCATAATTCTCAGGTCTGGCGAGTGAGTTGGAATATAACAGG
AACGGTGCTAGCATCTTCAGGAGATGATGGGTGTGTAAGATTGTGGAAAGCTAATTATATGGACAATTGGAAGTG
TACTGGTATTTTGAAAGGTAATGGGAGCCCAGTCAATGGGAGTTCTCAGCAGGGAACCTCAAATCCTTCCCTAGG
TTCAAATATTCCAAGTCTTCAGAATTCATTAAATGGATCTTCTGCTGGCAGAAAGCACAGCTGAGACAAGCTAAC
TGGAGTAACTTTGCTGTTTTGCTGCTTGTTGCATGCACACTGGAATGGAAAGCGAGCTCCCTTTTCCCCTTCCCC
AGCGCCGTTTGACCTCTCCCAAGGATACACCAGCAGCCTGCTTACTACTAAACGCAATCCAAAAGGCCTTTAAAA
ATACAGTGTATATTTTTTGTACTAGTCAGTTTATTGACACTATTTGAAACTTTTGAAATATAAACGGAGAGGCTT
TCTGTTGAGACATTGTCACCAAAACAATTTTTTGAAATGTTCCTGAAACTAATTTGGGTTTAAAGATTAAAAGGG
TTGTTACCATTCTTATCTGAGTAGTTGGGAGGAGGGGAATACCACTTTAGTTCATTTGGAAAATATAGACATATT
TCTTTTGCTTTCTTAAAACAGCTTAAAATGATGAACTTTTATAATTTTAATTTGAAGATTGAATAAATATTTTTT
ATAAAGATTGTTTTGAGTGCTGATTTGTTTACTTTTTGTAGATTTGCTTTATCCATGATATTCAGTACAACTCTG
TCATTTCTTTGTAATATTTAAAAAATATTAGTAAAGGAGTGAATTAATAAAGTAGTAATAGTAAAATGAAAGGAA
CTTGACTGTACAGTTTGTAGCCCAGGTTAAGGCATTTGGGTATTGTTTCATTTAACCAATTTGGGGACTAAGATG
GGAAACACTTTTTTTATTAAGTTTTTAATTCATAGTCACTAAAGAGATAAATGTTTCTTATATACATTTGTGTAT
TTTTATGGTGTTATTTATTCCATGGCTTAGCTTCCTTCAAATCAAAATTTGGACACACACTATTAAGAGAAGCCA
TTAAAATTTTACTAAAATTGTGCATGTAAATTAATTGTCAGCATTCCATGTCTCAAGATTTTCTTAATTTAGTTC
GCTGTTTAAATTAATTCATGTCCTGTAAAGTTCTGACCTTGATAACAAAGCTATAAATATTTAAGTTTGCTAATA
TGCGTAAGTATTATCGGTAAGTTACAAGATGGAAGAAGAATAACAGTAGGGCACAGTCATTCTGTGAATCCTTTT
ACTTATCAAAATTTGGTAGCTATTCTAAGGCTTTTGCAGAAAAATAAGTGTTCAATGTTTGTAGTTCTTCAAAAG
CATGTTGCAGTAGCCAGCCATACTATGTGTATTCCCAGTATCATGTACGCACTAAAAAAAAATGTGTGCTTGCTGC
TGCTGTGAGTGAACCATTGCTTAAGATAAAAAAACTTAACTAGATCTGTAAATGTACAGAATAGCATCAGATGTTT
CTGAGAGATTAGGAAAATGTTTTGAATTTATAAAATTAATGTTTTTCTTTGTAACATTTATATATATTTTTTAAC
ATTTTAAGTTTAACAGATTGTATTCCTTTCAAGTTTCTATACTTGCTTAAGCAATCTTGATTTGAGTAAGGGTCT
TGATTTGTGCTATTATGTTCTGTTAGTTTTGGCATGAATATACTAAAGCTTTTTTTTTTTTTTTAGCATGTGTT
TTCTCCTCTTTGGTTCTCTTTGTATTTACTACTTTTCTCTTTTTCTTGTGTTTTTTTTTTCCTGTTTTTGTTTTG
TTTGGTGTTTTGTTCCTGTCTTCATTGTTTCAGGTATTTCTTTACCCCTCTGGATTCCCCACGGGCTGGATCGAG
ATGGTCCAGTTATGCCCAGCTCCTTCCTCCTCCTCCTCCTCTGGTAGAGCACTCTTGCGATGCTGACACTGC
CAACCTCCAGTATCCTCACCCTCGCAGACGATATCTCTCTCGGCCTCTTAATCCCTTACCTGAGAATGAAGGGAT
TTAAAACACTGATTTAACATTGAAAGGCCTTATTCAAGTGCTTGTAAATGCTTTCATTTCTGGCTGCTTTTTGTT
TTTCATTTTCTTTCAGAAGATTTTTCTAACTTAGGGTCTGTCTTGCATGTATTACAACCAGAATACAGTGTTTGG
AACCTAAATCTGTTTGTGCGTCTGCATCAAAGGAACATTTGCTTCACTGGGTGATAACCTTTGATGAAATGAGAT
ATGTCCAAGTAACGTTAACTGTGAAGTTACACACAGTAGCTGACTTCAAAGTGCCTGTTCCTGTAAATTTTATTT
TAAACTGTTACCATAGTCTTAAGTTGTTTATGCTTTATCAGACTGGCTAATGTGAAAGCATAATATTATGAAGTT
TATTCTGCCTTATGAGACCTTAAAAAATGGATTTCATTTTACAGGCTAATGTTGTAACTGACTAGTATGTAAAAT
AAATCATTCCTGTGTATAAAGCAGCAAAACCTAAAAAAAAAA
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FIGURE 1369

MFVARSIAADHKDLIHDVSFDFHGRRMATCSSDQSVKVWDKSESGDWHCTASWKTHSGSVWRVTWAHPEFGQVLA
SCSFDRTAAVWEEIVGESNDKLRGQSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYEAPDVMNL
SQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSDDSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDPVHDI
AFAPNLGRSFHILAIATKDVRIFTLKPVRKELTSSGGPTKFEIHIVAQFDNHNSQVWRVSWNITGTVLASSGDDG
CVRLWKANYMDNWKCTGILKGNGSPVNGSSQQGTSNPSLGSNIPSLQNSLNGSSAGRKHS

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FIGURE 1370

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GGCGTCCCCTCCGTGAGGTCGCGCCCCGTTCGCACCGCCCCCGCCCGCAAGAAAGATGGCAGTGGCCTGATCCGGG
CCCGTTGGCGGCGTCACTGACGCTTCGCTCCGGTCCTCGGATCCCGAGCGCGGGGAGGCAGACCGACTGTGAGCT
GCTTGTCCCCATCCTGCGGCCGTCCTGGGGACACAGAGCCCTCCGTGGTGCCCGGGGATTGGATTGGAGCCAGGA
CCTCACTTCCTCCTCTGCCCCTGCCCCTGCCCCTCCCAGCACCTGGCCCACACCCTGCAGCCCGCCCCATGGTCT
GGCCCTGGGTGGCGATGGCGTCCAGGTGGGGTCCCCTCATTGGCCTGGCTCCGTGCTGCCTCTGGCTCCTGGGGG
CAGTCCTTCTGATGGACGCGTCTGCACGGCCTGCCAACCACTCGTCCACTCGAGAGAGAGTAGCCAACAGGGAGG
AGAATGAGATCCTGCCCCCAGACCACCTGAACGGGGTGAAGCTGGAGATGGACGGGCACCTCAATCGCGGCTTCC
ACCAGGAGGTCTTCCTAGGCAAGGACCTGGGTGGCTTTGATGAGGACGCGGAGCCGCGGCGGAGCCGGAGGAAGC
TGATGGTCATCTTTTCCAAGGTGGATGTGAACACTGACCGGAAGATCAGTGCCAAGGAGATGCAGCGCTGGATCA
TGGAGAAGACGGCCGAGCACTTCCAGGAGGCCATGGAGGAGAGCAAGACACACTTCCGCGCCGTGGACCCTGACG
GGGACGGTCACGTGTCTTGGGACGAGTATAAGGTGAAGTTTTTGGCGAGTAAAGGCCATAGCGAGAAGGAGGTTG
CCGACGCCATCAGGCTCAACGAGGAACTCAAAGTGGACGAGGAAACACAGGAAGTCCTGGAGAACCTGAAGGACC
GCTGGTACCAGGCGGACAGCCCCCCTGCAGACCTGCTGCTGACGGAGGAGGAGTTCCTGTCGTTCCTCCACCCCG
AGCACAGCCGGGGAATGCTCAGGTTCATGGTGAAGGAGATCGTCCGGGACCTGGACCAGGACGGTGACAAGCAGC
TCTCTGTGCCCGAGTTCATCTCCCTGCCCGTGGGCACCGTGGAGAACCAGCAGGGCCAGGACATTGACGACAACT
GGGTGAAAGACAGAAAAAAGGAGTTTGAGGAGCTCATTGACTCCAACCACGACGGCATCGTGACCGCCGAGGAGC
TGGAGAACGTGCCCACACTCCCGCTGCAGCCAATAGGCACCTTAAATAGCCACTTCGTGCGGCTGGCCGCGGAGC
TCGGAGGGGGAAAGGCGACGCTGACCTGTGCCCCGCTCGCCCGCAGAGCTACATGGACCCCATGAACGAGTACAA
CGCGCTGAACGAGGCCAAGCAGATGATCGCCGTCGCCGACGAGAACCAGAACCACCACCTGGAGCCCGAGGAGGT
GCTCAAGTACAGCGAGTTCTTCACGGGCAGCAAGCTGGTGGACTACGCGCGCAGCGTGCACGAGGAGTTTTGAGC
GCCCGGCCGCGCCCCGCGCCGCCCCCCACGCACCACCGGGGGGGGCCTCGCGGGTGACTCCGGCCTCCGTGGCTGT
CCCGGACCCCACCTCTTCTCTGCCGCCCACCACCGGCCGACCGACCGCGGCTTCCCCAGTTGATGAGCGGCGTGT
CCCCTCTGCAGCGCGCACCCCGGCGGGGCTTTGGCTGTGACGCGGTCGGGGCGCGGGGCTGGTCTGTGGCCCCGC
GGCGCGCCTCCTCCCTGGTCCCTCGAAATCGTGGCATCTCACTTCTGAGAACGAAATCTCGCTTCAGTCACTCTG
CCGAAGGCGCTGACGGCATCGCGGCCGGAACCTCTGGGCCCGGCCCCTCCCAGGGCCGCCGCTCCGTGGGAAAAA
ACAGCTCCTCCATTTCCTTGGAAACTGAACGATTATTAAAAAATAGATAAACTTCGCTGGAAATGAGTAGCCAGGA
AGTTCAGGGGAGGGTCCGGGGTCCTTCCCGGGGCCTGGCGTGTCGGAACCACCCAGGTCCCGCAGCTGCCTCTGA
GAAAATCCAAATATTTTTTGTGACAAGAATCACAAACATTTACTTTAAATATAAAAAAAAAAAAAAA
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FIGURE 1371

MVWPWVAMASRWGPLIGLAPCCLWLLGAVLLMDASARPANHSSTRERVANREENEILPPDHLNGVKLEMDGHLNR
GFHQEVFLGKDLGGFDEDAEPRRSRRKLMVIFSKVDVNTDRKISAKEMQRWIMEKTAEHFQEAMEESKTHFRAVD
PDGDGHVSWDEYKVKFLASKGHSEKEVADAIRLNEELKVDEETQEVLENLKDRWYQADSPPADLLLTEEEFLSFL
HPEHSRGMLRFMVKEIVRDLDQDGDKQLSVPEFISLPVGTVENQQGQDIDDNWVKDRKKEFEELIDSNHDGIVTA
EELESYMDPMNEYNALNEAKQMIAVADENQNHHLEPEEVLKYSEFFTGSKLVDYARSVHEEF

FIGURE 1372

GGCACGAGGGTCCCTGGGCCGGACGGCGGTGTCCCGGCGTGGCGGGAAGCCGGCACTGGAGCGGGAGCGCACTGG
GCGCGGGACCGGGAGGCGCAGGGACCGGACGGCTCCCGAGTCGCCCACCTGACGCTAGAAGAAGTCTTCACTTCC
CAGGAGAGCCAAAGCGTGTCTGGCCCTAGGTGGGAAAAGAACTGGCTGTGACCTTTGCCCTGACCTGGAAGGGCC
CAGCCTTGGGCTGA**ATG**GCAGCACCCACGCCCGCCCGTCCGGTGCTGACCCACCTGCTGGTGGCTCTCTTCGGCA
TGGGCTCCTGGGCTGCGGTCAATGGGATCTGGGTGGAGCTACCTGTGGTGGTCAAAGAGCTTCCAGAGGGTTGGA
GCCTCCCCTCTTACGTCTCTGTGCTTGTGGCTCTGGGGAACCTGGGTCTGCTGGTGGTGACCCTCTGGAGGAGGC
TGGCCCCAGGAAAGGACGAGCAGGTCCCCATCCGGGTGGTGCAGGTGCTGGGCATGGTGGGCACAGCCCTGCTGG
CCTCTCTGTGGCACCATGTGGCCCCAGTGGCAGGACAGTTGCATTCTGTGGCCTTCTTAGCACTGGCCTTTGTGC
TGGCACTGGCATGCTGTGCCTCGAATGTCACTTTCCTGCCCTTCTTGAGCCACCTGCCACCTCGCTTCTTACGGT
CATTCTTCCTGGGTCAAGGCCTGAGTGCCCTGCTGCCCTGCGTGCTGGCCCTAGTGCAGGGTGTGGGCCGCCTCG
AGTGCCCGCCAGCCCCCATCAACGGCACCCCTGGCCCCCCGCTCGACTTCCTTGAGCGTTTTCCCGCCAGCACCT
TCTTCTGGGCACTGACTGCCCTTCTGGTCGCTTCAGCTGCTGCCTTCCAGGGTCTTCTGCTGCTGTTGCCGCCAC
CACCATCTGTACCCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGGAAG
AGTCCTCACCACTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCACCCCTGGTCCAGACCCTAAGGCCTATCAGC
TTCTATCAGCCCGCAGTGCCTGCCTGCTGGGCCTGTTGGCCGCCACCAACGCGCTGACCAATGGCGTGCTGCCTG
CCGTGCAGAGCTTTTCCTGCTTACCCTACGGGCGTCTGGCCTACCACCTGGCTGTGGTGCTGGGCAGTGCTGCCA
ATCCCCTGGCCTGCTTCCTGGCCATGGGTGTGCTGTGCAGGTCCTTGGCAGGGCTGGGCGGCCTCTCTCTGCTGG
GCGTGTTCTGTGGGGGCTACCTGATGGCGCTGGCAGTCCTGAGCCCCTGCCCGCCCCTGGTGGGCACCTCGGCGG
GGGTGGTCCTCGTGGTGCTGTCGTGGGTGCTGTGTCTTGGCGTGTTCTCCTACGTGAAGGTGGCAGCCAGCTCCC
TGCTGCATGGCGGGGGCCGGCCGGCATTGCTGGCAGCCGGCGTGGCCATCCAGGTGGGCTCTCTGCTCGGCGCTG
TTGCTATGTTCCCCCCGACCAGCATCTATCACGTGTTCCACAGCAGAAAGGACTGTGCAGACCCCTGTGACTCC**T**
GAGCCTGGGCAGGTGGGGACCCCGCTCCCCAACACCTGTCTTTCCCTCAATGCTGCCACCATGCCTGAGTGCCTG
CAGCCCAGGAGGCCCGCACACCGGTACACTCGTGGACACCTACACACTCCATAGGAGATCCTGGCTTTCCAGGGT
GGGCAAGGGCAAGGAGCAGGCTTGGAGCCAGGGACCAGTGGGGGCTGTAGGGTAAGCCCCTGAGCCTGGGACCTA
CATGTGGTTTGCGTAATAAAACATTTGTATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1373

MAAPTPARPVLTHLLVALFGMGSWAAVNGIWVELPVVVKELPEGWSLPSYVSVLVALGNLGLLVVTLWRRLAPGK
DEQVPIRVVQVLGMVGTALLASLWHHVAPVAGQLHSVAFLALAFVLALACCASNVTFLPFLSHLPPRFLRSFFLG
QGLSALLPCVLALVQGVGRLECPPAPINGTPGPPLDFLERFPASTFFWALTALLVASAAAFQGLLLLLPPPPSVP
TGELGSGLQVGAPGAEEEVEESSPLQEPPSQAAGTTPGPDPKAYQLLSARSACLLGLLAATNALTNGVLPAVQSF
SCLPYGRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLGGLSLLGVFCGGYLMALAVLSPCPPLVGTSAGVVLV
VLSWVLCLGVFSYVKVAASSLLHGGGRPALLAAGVAIQVGSLLGAVAMFPPTSIYHVFHSRKDCADPCDS

FIGURE 1374

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GGCACGAGGGTCCGCGGGAGCCGCCGCCGCCGCCGTCCCGTCCCAGCTGCCGCCCCGCGCGGCCCCGCCGCCGGC
CAGGATGCTGGAGGAAGCGGGCGAGGTGCTGGAGAACATGCTGAAGGCGTCTTGTCTGCCTCTCGGCTTCATCGT
CTTCCTGCCCGCTGTGCTGCTGCTGGTGGCGCCGCCGCTGCCTGCCGCCGACGCCGCGCACGAGTTCACCGTGTA
CCGCATGCAGCAGTACGACCTGCAGGGCCAGCCCTACGGCACACGGAATGCAGTGCTGAACACGGAGGCGCGCAC
GATGGCGGCGGAGGTGCTGAGCCGCCGCTGCGTGCTCATGCGGCTACTGGACTTCTCCTACGAGCAGTACCAGAA
GGCCCTGCGGCAGTCGGCGGGCGCCGTGGTCATCATCCTGCCCAGGGCCATGGCCGCCGTGCCCCAGGACGTCGT
CCGGCAATTCATGGAGATCGAGCCGGAGATGCTGGCCATGGAGACCGCCGTCCCCGTGTACTTTGCCGTGGAGGA
CGAGGCCCTGCTGTCTATCTACAAGCAGACCCAGGCTGCCTCCGCCTCCCAGGGCTCCGCCTCTGCTGCTGAAGT
ACTGCTGCGCACGGCCACTGCCAACGGCTTCCAGATGGTCACCAGCGGGGTACAGAGCAAGGCCGTGAGTGACTG
GCTGATTGCCAGCGTGGAGGGGCGGCTGACGGGGCTGGGCGGAGAGGACCTTCCCACCATCGTCATCGTGGCCCA
CTACGACGCCTTTGGAGTGGCCCCCTGGCTGTCGCTGGGCGCGGACTCCAACGGGAGCGGCGTCTCTGTGCTGCT
GGAGCTGGCACGCCTCTTCTCCCGGCTCTACACCTACAAGCGCACGCACGCCGCCTACAACCTCCTGTTCTTTGC
GTCTGGAGGAGGCAAGTTTAACTACCAGGGAACCAAGCGCTGGCTGGAAGACAACCTGGACCACACAGACTCCAG
CCTGCTTCAGGACAATGTGGCCTTCGTGCTGTGCCTGGACACCGTGGGCCGGGGCAGCAGCCTGCACCTGCACGT
GTCCAAGCCGCCTCGGGAGGGCACCCTGCAGCACGCCTTCCTGCGGGAGCTGGAGACGGTGGCCGCGCACCAGTT
CCCTGAGGTACGGTTCTCCATGGTGCACAAGCGGATCAACCTGGCGGAGGACGTGCTGGCCTGGGAGCACGAGCG
CTTCGCCATCCGCCGACTGCCCGCCTTCACGCTGTCCCACCTGGAGAGCCACCGTGACGGTCAGCGCAGCAGCAT
CATGGACGTGCGGTCCCGGGTGGATTCTAAGACCCTGACCCGTAACACGAGGATCATTGCAGAGGCCCTGACTCG
AGTCATCTACAACCTGACAGAGAAGGGGACACCCCCAGACATGCCGGTGTTCACAGAGCAGATGCAGATCCAGCA
GGAGCAGCTGGACTCGGTGATGGACTGGCTCACCAACCAGCCGCGGGCCGCGCAGCTGGTGGACAAGGACAGCAC
CTTCCTCAGCACGCTGGAGCACCACCTGAGCCGCTACCTGAAGGACGTGAAGCAGCACCACGTCAAGGCTGACAA
GCGGGACCCAGAGTTTGTCTTCTACGACCAGCTGAAGCAAGTGATGAATGCGTACAGAGTCAAGCCGGCCGTCTT
TGACCTGCTCCTGGCTGTTGGCATTGCTGCCTACCTCGGCATGGCCTACGTGGCTGTCCAGCACTTCAGCCTCCT
CTACAAGACCGTCCAGAGGCTGCTCGTGAAGGCCAAGACACAGTGACACAGCCACCCCCACAGCCGGAGCCCCCG
CCGCTCCACAGTCCCTGGGGCCGAGCACGAGTGAGTGGACACTGCCCCGCCGCGGGCGGCCCTGCAGGGACAGGG
GCCCTCTCCCTCCCCGGCGGTGGTTGGAACACTGAATTACAGAGCTTTTTTCTGTTGCTCAAAAAAAAAAAAAAA
AAA
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FIGURE 1375

MLKASCLPLGFIVFLPAVLLLVAPPLPAADAAHEFTVYRMQQYDLQGQPYGTRNAVLNTEARTMAAEVLSRRCVL
MRLLDFSYEQYQKALRQSAGAVVIILPRAMAAVPQDVVRQFMEIEPEMLAMETAVPVYFAVEDEALLSIYKQTQA
ASASQGSASAAEVLLRTATANGFQMVTSGVQSKAVSDWLIASVEGRLTGLGGEDLPTIVIVAHYDAFGVAPWLSL
GADSNGSGVSVLLELARLFSRLYTYKRTHAAYNLLFFASGGGKFNYQGTKRWLEDNLDHTDSSLLQDNVAFVLCL
DTVGRGSSLHLHVSKPPREGTLQHAFLRELETVAAHQFPEVRFSMVHKRINLAEDVLAWEHERFAIRRLPAFTLS
HLESHRDGQRSSIMDVRSRVDSKTLTRNTRIIAEALTRVIYNLTEKGTPPDMPVFTEQMQIQQEQLDSVMDWLTN
QPRAAQLVDKDSTFLSTLEHHLSRYLKDVKQHHVKADKRDPEFVFYDQLKQVMNAYRVKPAVFDLLLAVGIAAYL
GMAYVAVQHFSLLYKTVQRLLVKAKTQ

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FIGURE 1376

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CACACCCGCACTCCTCCCGGGTTTCTGCTCTCCGCCCGTGTGGAGTGGTGGGGGCCTGGGTGGGAATGGGCGTGT
GCCAGCGCACGCGCGCTCCCTGGAAGGAGAAGTCTCAGCTAGAACGAGCGGCCCTAGGTTTTCGGAAGGGAGGAT
CAGGGATGTTTGCGAGCGGCTGGAACCAGACGGTGCCGATAGAGGAAGCGGGCTCCATGGCTGCCCTCCTGCTGC
TGCCCCTGCTGCTGTTGCTACCGCTGCTGCTGCTGAAGCTACACCTCTGGCCGCAGTTGCGCTGGCTTCCGGCGG
ACTTGGCCTTTGCGGTGCGAGCTCTGTGCTGCAAAAGGGCTCTTCGAGCTCGCGCCCTGGCCGCGGCTGCCGCCG
ACCCGGAAGGTCCCGAGGGGGGCTGCAGCCTGGCCTGGCGCCTCGCGGAACTGGCCCAGCAGCGCGCCGCGCACA
CCTTTCTCATTCACGGCTCGCGGCGCTTTAGCTACTCAGAGGCGGAGCGCGAGAGTAACAGGGCTGCACGCGCCT
TCCTACGTGCGCTAGGCTGGGACTGGGGACCCGACGGCGGCGACAGCGGCGAGGGGAGCGCTGGAGAAGGCGAGC
GGGCAGCGCCGGGAGCCGGAGATGCAGCGGCCGGAAGCGGCGCGGAGTTTGCCGGAGGGGACGGTGCCGCCAGAG
GTGGAGGAGCCGCCGCCCCTCTGTCACCTGGAGCAACTGTGGCGCTGCTCCTCCCCGCTGGCCCAGAGTTTCTGT
GGCTCTGGTTCGGGCTGGCCAAGGCCGGCCTGCGCACTGCCTTTGTGCCCACCGCCCTGCGCCGGGGCCCCCTGC
TGCACTGCCTCCGCAGCTGCGGCGCGCGCGCGCTGGTGCTGGCGCCAGAGTTTCTGGAGTCCCTGGAGCCGGACC
TGCCCGCCCTGAGAGCCATGGGGCTCCACCTGTGGGCTGCAGGCCCAGGAACCCACCCTGCTGGAATTAGCGATT
TGCTGGCTGAAGTGTCCGCTGAAGTGGATGGGCCAGTGCCAGGATACCTCTCTTCCCCCCAGAGCATAACAGACA
CGTGCCTGTACATCTTCACCTCTGGCACCACGGGCCTCCCCAAGGCTGCTCGGATCAGTCATCTGAAGATCCTGC
AATGCCAGGGCTTCTATCAGCTGTGTGGTGTCCACCAGGAAGATGTGATCTACCTCGCCCTCCCACTCTACCACA
TGTCCGGTTCCCTGCTGGGCATCGTGGGCTGCATGGGCATTGGGGCCACAGTGGTGCTGAAATCCAAGTTCTCGG
CTGGTCAGTTCTGGGAAGATTGCCAGCAGCACAGGGTGACGGTGTTCCAGTACATTGGGGAGCTGTGCCGATACC
TTGTCAACCAGCCCCCGAGCAAGGCAGAACGTGGCCATAAGGTCCGGCTGGCAGTGGGCAGCGGGCTGCGCCCAG
ATACCTGGGAGCGTTTTGTGCGGCGCTTCGGGCCCCTGCAGGTGCTGGAGACATATGGACTGACAGAGGGCAACG
TGGCCACCATCAACTACACAGGACAGCGGGGCGCTGTGGGGCGTGCTTCCTGGCTTTACAAGCATATCTTCCCCT
TCTCCTTGATTCGCTATGATGTCACCACAGGAGAGCCAATTCGGGACCCCCAGGGGCACTGTATGGCCACATCTC
CAGGTGAGCCAGGGCTGCTGGTGGCCCCGGTAAGCCAGCAGTCCCCATTCCTGGGCTATGCTGGCGGGCCAGAGC
TGGCCCAGGGGAAGTTGCTAAAGGATGTCTTCCGGCCTGGGGATGTTTTCTTCAACACTGGGGACCTGCTGGTCT
GCGATGACCAAGGTTTTCTCCGCTTCCATGATCGTACTGGAGACACCTTCAGGTGGAAGGGGGAGAATGTGGCCA
CAACCGAGGTGGCAGAGGTCTTCGAGGCCCTAGATTTTCTTCAGGAGGTGAACGTCTATGGAGTCACTGTGCCAG
GGCATGAAGGCAGGGCTGGAATGGCAGCCCTAGTTCTGCGTCCCCCCCACGCTTTGGACCTTATGCAGCTCTACA
CCCACGTGTCTGAGAACTTGCCACCTTATGCCCGGCCCCGATTCCTCAGGCTCCAGGAGTCTTTGGCCACCACAG
AGACCTTCAAACAGCAGAAAGTTCGGATGGCAAATGAGGGCTTCGACCCCAGCACCCTGTCTGACCCACTGTACG
TTCTGGACCAGGCTGTAGGTGCCTACCTGCCCCTCACAACTGCCCGGTACAGCGCCCTCCTGGCAGGAAACCTTC
GAATCTGAGAACTTCCACACCTGAGGCACCTGAGAGAGGAACTCTGTGGGGTGGGGGCCGTTGCAGGTGTACTGG
GCTGTCAGGGATCTTTTCTATACCAGAACTGCGGTCACTATTTTGTAATAAATGTGGCTGGAGCTGATCCAGCTG
TCTCTGACCTACAAAAAAAAAAAAAAAAAA
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FIGURE 1377

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MGVCQRTRAPWKEKSQLERAALGFRKGGSGMFASGWNQTVPIEEAGSMAALLLLPLLLLLPLLLLKLHLWPQLRW
LPADLAFAVRALCCKRALRARALAAAAADPEGPEGGCSLAWRLAELAQQRAAHTFLIHGSRRFSYSEAERESNRA
ARAFLRALGWDWGPDGGDSGEGSAGEGERAAPGAGDAAAGSGAEFAGGDGAARGGGAAAPLSPGATVALLLPAGP
EFLWLWFGLAKAGLRTAFVPTALRRGPLLHCLRSCGARALVLAPEFLESLEPDLPALRAMGLHLWAAGPGTHPAG
ISDLLAEVSAEVDGPVPGYLSSPQSITDTCLYIFTSGTTGLPKAARISHLKILQCQGFYQLCGVHQEDVIYLALP
LYHMSGSLLGIVGCMGIGATVVLKSKFSAGQFWEDCQQHRVTVFQYIGELCRYLVNQPPSKAERGHKVRLAVGSG
LRPDTWERFVRRFGPLQVLETYGLTEGNVATINYTGQRGAVGRASWLYKHIFPFSLIRYDVTTGEPIRDPQGHCM
ATSPGEPGLLVAPVSQQSPFLGYAGGPELAQGKLLKDVFRPGDVFFNTGDLLVCDDQGFLRFHDRTGDTFRWKGE
NVATTEVAEVFEALDFLQEVNVYGVTVPGHEGRAGMAALVLRPPHALDLMQLYTHVSENLPPYARPRFLRLQESL
ATTETFKQQKVRMANEGFDPSTLSDPLYVLDQAVGAYLPLTTARYSALLAGNLRI
```

FIGURE 1378

AAAGAAAAATGCTCTGCATGGATTGGAGACACAGCAATAACTACTGTTGCCATGGAAGGGTTAACAGTGTAGGAG
CTGGTTTATCAGTCCGCTTTGACATACAGCTAAAGGAAATTTATGTTTGGGGGAAAAAGGCCCTCTGTTCACTT**T**
AAAATTCAGTGTGGACTTATGCCAAAGGGGGCTGTTTAAGTTGAAAGAAGCCAAGTTAAGTTTGGCCTCTTGCCT
GGAATCACTTGAATTCTGAAATTTCACTGCGACGGACATGTGCCTTGTCACATTTTCCATTGCTTAATCCTGAAG
TTTGGTGCAAGTCTCTCTGCACCTATTAAAAAGTGATGTATATACTTCCTTCTTATTCTGTTGAGTTGTATAGAA
TTGTCTTTTGTATTTAACACTTTGTAATTTTCACAATATTTTTTAATTTAAATAAATAAACACATTTTTTCCCTC
CTGGGAAGTCATGAAAA

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FIGURE 1379

RKMLCMDWRHSNNYCCHGRVNSVGAGLSVRFDIQLKEIYVWGKKALCSL

FIGURE 1380A

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AGCGATCCGAGGCCCGGCCCCGGCCCCGCCCCGCGCCGCGCCGCGCCGCTTGCCGCCGGGCTAGCACTGACGTGT
CTCTCGGCGGAGCTGCTGTGCAGTGGAACGCGCTGGGCCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGC
TGAAGCGGGACCCGGAGCCCGAGCAGCCGCCGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT
CATCCTGCCGGAAATTCAGAAGCCAGAGAGGAAGATTCAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACCCT
CTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTCAGCTGACCCTTTCTATTG
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTCACGTCTGGCCT
TATAATGCAACTCTTGGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCCAAAAGACCGAGCTCTCTTCAACGG
AGCCCAAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGGA
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTCAGCTCTTTGTTGCTGGCTTAATTGTCCTACT
TTTGGATGAACTCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTCATTGCAACTAACATCTGTGA
AACCATCGTATGGAAGGCATTCAGCCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCT
TCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCAGTGGTCATCTATTTCCAGGGCTTCCGAGTGGA
CCTGCCAATCAAGTCGGCCCGCTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCAACAT
CCCCATCATCCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTCATCTCCCAAATGCTCTCAGCTCGCTTCAGTGG
CAACTTGCTGGTCAGCCTGCTGGGCACCTGGTCGGACACGTCTTCTGGGGGGCCCAGCACGTGCTTATCCAGTTGG
TGGCCTTTGCTATTACCTGTCCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATA
CATAGTGTTCATGCTGGGCTCCTGTGCATTCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCCTCTGCCAAAGA
TGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACTCAA
CCGGTACATCCCCACAGCCGCGGCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCCTGGCTGACTTCCTAGG
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGA
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGGACAGGTTGAGGAAGCTGCTCCA
GAAGCGCCTCGGAAGGGGAGCTCTCATCATGGCGCGTGCTGCTGCGGCATATGGACTTTTAATAATGTTTTTGAA
TTTCGTATTCTTTCATTCCACTGTGTAAAGTGCTAGACATTTTCCAATTTAAAATTTTGCTTTTTATCCTGGCAC
TGGCAAAAAGAACTGTGAAAGTGAAATTTTATTCAGCCGACTGCCAGAGAAGTGGGAATGGTATAGGATTGTCCC
CAAGTGTCCATGTAACTTTTGTTTTAACCTTTGCACCTTCTCAGTGCTGTATGCGGCTGCAGCCGTCTCACCTGT
TTCCCCACAAAGGGAATTTCTCACTCTGGTTGGAAGCACAAACACTGAAATGTCTACGTTTCATTTTGGCAGTAG
GGTGTGAAGCTGGGAGCAGATCATGTATTTCCCGGAGACGTGGGACCTTGCTGGCATGTCTCCTTCACAATCAGG
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTCTAAGACACCATTGTTTTCCCTTATTTTAAAAGTGATTTTTTT
AAGGACAGAACTTCTTCCAAAAGAGAGGGATGGCTTTCCCAGAAGACACTCCTGGCCATCGTGGATTTGTCTGT
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTTAG
TCCACTTGGGTCATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCTTGCAGTGATGTCCGTT
TGTCCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT
ATCAGACATGGACAGAAACTGACTTAGTGCTCACAAGCCCCTACACCTTCTGGGCTGAAGATCACCCAGCTGTGT
TCAGAATTTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCTTTCTGCGTCACCAGT
GTCGTCAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTCGGGGTGCATGGGCTGTGGTG
GTGTTGATCAGTTGCTCCAGTGTTTGAAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA
CAGGTGGCCTAGGTCCTGGAGATGAGCACCCTCTCTCTGGCCTTTAGGGAGTCCCCTCTTAGGACAGGCACTGCC
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCGAGCTGGCTTTAGACATTGGT
GGGACCAAGGATGTTTTGCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCGTGCAGCCTGTCGGGGAGA
CCCCACTCTGACAGTGGGCACACGGCAGCCTGCAAAGCACAGGGCCACCGCCACAGCCCGGCAGAGGGGCACACT
CTGGAGACCTTGCTGGCAGTGCTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGACTTGCCTAAAGCCACC
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCCAGGGCTTACCACCCTATCACACG
TGGCCTTGTCTAGACCCAGTCCTGAGCAGGGGAGAGGCTCTTGAGACCTGATGCCCTCCTACCCACATGGTTCTC
CCACTGCCCTGTCTGCTCTGCTGCTACAGAGGGGCAGGGCCTCCCCCAGCCCACGCTTAGGAATGCTTGCCTCTG
GCAGGCAGGCAGCTGTACCCAAGCTGGTGGGCAGGGGGCTGGAAGGCACCAGGCCTCAGGAGGAGCCCCATAGTC
CCGCCTGCAGCCTGTAACCATCGGCTGGGCCCTGCAAGGCCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG
GTGGGTGGGGGCTGACCCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAAATGGCATAACTGAGATAAGGTGA
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FIGURE 1380B

ATAAGTGACAAATAAAGCCAGTTTTTTACAAGGTAAAAAAAAAAAAAAAAAAAAA

FIGURE 1381

MAIKFLEVIKPFCVILPEIQKPERKIQFKEKVLWTAITLFIFLVCCQIPLFGIMSSDSADPFYWMRVILASNRGT
LMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIITIGQSIVYVMTGMYGDPSEMGAGICLL
ITIQLFVAGLIVLLLDELLQKGYGLGSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRTD
KVRALREAFYRQNLPNLMNLIATIFVFAVVIYFQGFRVDLPIKSARYRGQYNTYPIKLFYTSNIPIILQSALVSN
LYVISQMLSARFSGNLLVSLLGTWSDTSSGGPARAYPVGGLCYYLSPPESFGSVLEDPVHAVVYIVFMLGSCAFF
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA
VTIIYQYFEIFVKEQSEVGSMGALLF

FIGURE 1382

AGGGGGCGAAGGCGGCGGTGGTGAGGAAGATACTTTGGTTAGTGACCACATCGCAGC**ATG**TTGAGTCAAGTTTAC
CGCTGTGGGTTCCAGCCCTTCAACCAACATCTTCTGCCCTGGGTCAAGTGTACAACCGTCTTCAGATCTCATTGT
ATCCAGCCTTCAGTCATCAGACATGTTCGTTCTTGGAGCAACATCCCGTTTATCACTGTACCCCTCAGTCGTACA
CATGGAAAGTCCTTCGCCCACCGCAGTGAGCTGAAGCATGCCAAGAGAATCGTGGTGAAGCTCGGCAGTGCCGTG
GTGACCCGAGGGGATGAATGTGGCCTGGCCCTGGGGCGCTTGGCATCTATTGTTGAGCAGGTATCAGTGCTGCAG
AATCAGGGCAGAGAGATGATGCTGGTGACCAGTGGAGCCGTAGCCTTTGGCAAACAACGCTTGCGCCATGAGATC
CTTCTGTCTCAGAGCGTGCGGCAGGCCCTCCACTCGGGGCAGAACCAGCTGAAAGAAATGGCAATTCCAGTCTTA
GAGGCACGAGCCTGTGCAGCTGCCGGACAGAGTGGGCTGATGGCCTTGTATGAGGCTATGTTTACCCAGTACAGC
ATCTGTGCTGCCCAGATTTTGGTGACCAATTTGGATTTCCATGATGAGCAGAAGCGCCGGAACCTCAATGGAACA
CTTCATGAACTCCTTAGAATGAACATTGTCCCCATTGTCAACACAAATGATGCTGTTGTCCCCCCAGCTGAGCCC
AACAGTGACCTGCAGGGGGTAAATGTTATTAGTGTTAAAGATAATGATAGCCTGGCTGCCCGACTGGCTGTGGAA
ATGAAAACTGATCTCTTGATTGTTCTTTCAGATGTAGAAGGCCTTTTTGACAGCCCCCCAGGTTCAGATGATGCA
AAGCTTATTGATATATTTTATCCCGGAGATCAGCAGTCTGTGACATTTGGAACCAAGTCTAGAGTGGGAATGGGT
GGCATGGAAGCCAAGGTGAAAGCAGCCCTCTGGGCTTTGCAAGGTGGCACTTCTGTTGTTATTGCCAATGGAACC
CACCCAAAGGTGTCTGGGCACGTCATCACAGACATTGTGGAGGGGAAGAAAGTTGGTACCTTCTTTTCAGAAGTA
AAGCCTGCAGGCCCTACTGTTGAGCAGCAGGGAGAAATGGCGCGATCTGGAGGAAGGATGTTGGCCACCTTGGAA
CCTGAGCAGAGAGCAGAAATTATCCATCATCTGGCTGATCTGTTGACGGACCAGCGTGATGAGATCCTGTTAGCC
AACAAAAAGACTTGGAGGAGGCAGAGGGGAGACTTGCAGCTCCTCTGCTGAAACGTTTAAGCCTCTCCACATCC
AAATTGAACAGCCTGGCCATCGGTCTGCGACAGATCGCAGCCTCCTCCCAGGACAGCGTGGGACGTGTTTTGCGC
CGCACCCGAATCGCCAAAAACTTGGAACTGGAACAAGTGACTGTCCCAATTGGAGTTCTGCTGGTGATCTTTGAA
TCTCGTCCTGACTGTCTACCCCAGGTGGCAGCTTTGGCTATCGCAAGTGGCAATGGCTTGTTACTCAAAGGAGGG
AAGGAGGCTGCACACAGCAACCGGATTCTCCACCTCCTGACCCAGGAGGCTCTCTCAATCCATGGAGTCAAGGAG
GCCGTGCAACTGGTGAATACCAGAGAAGAAGTTGAAGATCTTTGCCGCCTAGACAAAATGATAGATCTGATCATT
CCACGTGGCTCTTCCCAGCTGGTCAGAGACATCCAGAAAGCTGCTAAGGGGATTCCAGTGATGGGGCACAGCGAA
GGGATCTGTCACATGTATGTGGATTCCGAGGCCAGTGTTGATAAGGTCACCAGGCTAGTCAGAGACTCTAAATGT
GAATATCCAGCTGCCTGTAATGCTTTGGAGACTTTGTTAATCCACCGGGATCTGCTCAGGACACCATTATTTGAC
CAGATCATTGATATGCTGAGAGTGGAACAGGTAAAAATTCATGCAGGCCCCAAATTTGCCTCCTATCTGACCTTC
AGCCCCTCCGAAGTGAAGTCACTCCGAACTGAGTATGGGGACCTGGAATTATGCATTGAAGTAGTGGACAACGTT
CAGGATGCCATTGACCACATCCACAAGTATGGCAGCTCCCACACGGATGTCATCGTCACAGAGGACGAAAACACA
GCGGAGTTCTTCCTGCAGCACGTAGACAGTGCCTGTGTGTTCTGGAATGCCAGCACTCGCTTTTCTGATGGTTAC
CGCTTTGGACTGGGAGCTGAAGTGGGAATCAGTACATCGAGAATCCACGCCCGGGGACCAGTAGGACTTGAGGGA
CTGCTTACTACTAAGTGGCTGCTGCGAGGGAAGGACCACGTGGTCTCAGATTCTCAGAGCATGGAAGTTTAAAA
TATCTTCATGAGAACCTCCCTATTCCTCAGAGAAACACCAAC**TGA**AAAGAGCCAGGAAAACCCGGGAATTTTCCA
AAAGGTCTTCACGTTAAACTTGTCTTATCTCAGGAGAGAGCCCGCTCTTGTCTCCCAGTTCCTGGTAGGGTCTGC
CTGTTGGAAAGTGTACCTGGATGCTTCTGGGCTCCGTTTGGCAATAGCAATCTTGGCTGATGTGCACAGTCTGGC
TCCCAGCTCACCCTTTTTTTTTAAAGTAAGAAAATAGTTGCTACCGATAGGGACTTTGCCAAGTCCAATTATCTT
CTAGGATTGAAAGGTGCATTTTCCCCATAAAAAAGGCGAGGAAAACCCATGGCTGCTTTGTGTCACCTCAGTGAC
TTACAGTCCCCCTTCGCATTTAGTTGGTACTAGAGCCAGTCATCCTTAACAAATCTTTTCGCGTTTTATTTCTTT
CACATGTAGTCATCTTCAAAAAGGAAAGATTTGGAATTTTAGAAAAGGGGCAACTCTTCTTTTTAGCATTCTCAT
CAGAAAGTCACAAAAATCGATGGAATCATTTCCACTGGGAAGATTGACCTTTTGTATTTATTTGTGGGGTAAATT
AATAAGCATTCCAGATGCTTGCAGCTTCCTGCATCCAGGAGATGCTGTGTCCCCCGTGATGCAGCTGGAACCCAA
GCTGCAGCAGGAGATGCAAGTTTCAGGATGTTCCCCACTGAGCTGGAGGAATATCTACAGCAGTGATGCTTGAAA
TTTTTGTATGAATTATTTTGTCGTCCTACCCTTTTCCTCCAAAACAAAAATTAGAGGATTATTTTAATACTTTGG
ATTCTTCCCCCTTTTTTGAGAAATAAAGTTTTTTATG

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FIGURE 1383

MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRSWSNIPFITVPLSRTHGKSFAHRSELKHAKRIVV
KLGSAVVTRGDECGLALGRLASIVEQVSVLQNQGREMMLVTSGAVAFGKQRLRHEILLSQSVRQALHSGQNQLKE
MAIPVLEARACAAAGQSGLMALYEAMFTQYSICAAQILVTNLDFHDEQKRRNLNGTLHELLRMNIVPIVNTNDAV
VPPAEPNSDLQGVNVISVKDNDSLAARLAVEMKTDLLIVLSDVEGLFDSPPGSDDAKLIDIFYPGDQQSVTFGTK
SRVGMGGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVITDIVEGKKVGTFFSEVKPAGPTVEQQGEMARSGGR
MLATLEPEQRAEIIHHLADLLTDQRDEILLANKKDLEEAEGRLAAPLLKRLSLSTSKLNSLAIGLRQIAASSQDS
VGRVLRRTRIAKNLELEQVTVPIGVLLVIFESRPDCLPQVAALAIASGNGLLLKGGKEAAHSNRILHLLTQEALS
IHGVKEAVQLVNTREEVEDLCRLDKMIDLIIPRGSSQLVRDIQKAAKGIPVMGHSEGICHMYVDSEASVDKVTRL
VRDSKCEYPAACNALETLLIHRDLLRTPLFDQIIDMLRVEQVKIHAGPKFASYLTFSPSEVKSLRTEYGDLELCI
EVVDNVQDAIDHIHKYGSSHTDVIVTEDENTAEFFLQHVDSACVFWNASTRFSDGYRFGLGAEVGISTSRIHARG
PVGLEGLLTTKWLLRGKDHVVSDFSEHGSLKYLHENLPIPQRNTN

FIGURE 1384

GAGAGGCGCCCAGGCGGCGGCGGCGGCGGCCCAGCTTCTTCTTTCCTCGCACAGCCAGGCGGCCCCTGCTCGAGT
CCCGCGTCGCC**ATG**GCCGCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGCTGAGATCTGTAT
CTGTGGACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAAT
TTACAGTGCACACAAAGACCACACTGCCCACGTTTCAGAGCCCAGAGTTTTCTGTTACAAGGCAACATGAAGACT
TTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATTCCACCTGCTCCTACGAAGC
CCGACTTTGATGGTCCTCGAGAGAAGATGCAGAAACTGGGAGAAGGTGAAGGGTCTATGACCAAAGAAGAATTTG
CCAAGATGAAACAAGAACTGGAAGCTGAGTATCTCGCTGTGTTTAAGAAGACTGTGTCCTCCCATGAAGTCTTTC
TTCAGCGGCTTTCTTCTCACCCTGTTCTCAGTAAAGATCGCAACTTTCATGTTTTCCTGGAATATGATCAGGATC
TAAGTGTTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTTCAAAAGTGTGGTGAAAAGTGCTGATGAAG
TCCTTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAGCAAGAGAAGAACTTCCTTATTAACTATTACAATA
GGATCAAAGATTCTTGTGTGAAAGCTGACAAAATGACCAGATCTCATAAAAATGTTGCCGATGACTATATCCACA
CCGCAGCCTGCTTACATAGCCTGGCTTTAGAAGAGCCCACAGTCATCAAAAAGTACCTATTGAAGGTTGCTGAGC
TATTTGAAAAACTAAGGAAAGTAGAGGGTCGAGTTTCATCAGATGAAGATTTGAAGCTAACAGAGCTCCTCCGAT
ACTACATGCTCAACATTGAAGCTGCTAAGGATCTCTTATACAGACGCACCAAAGCCCTCATTGACTATGAGAACT
CAAACAAAGCTCTGGATAAGGCCCGGTTAAAGAGCAAAGACGTCAAGTTGGCTGAGGCACACCAGCAGGAGTGCT
GCCAGAAATTTGAACAACTTTCCGAATCTGCAAAAGAAGAACTGATAAATTTCAAACGGAAGAGAGTGGCAGCAT
TTAGAAAGAATCTAATTGAAATGTCTGAACTGGAAATAAAACATGCCAGGAACAATGTCTCCCTTTTGCAGAGCT
GTATTGACTTGTTCAAGAATAAC**TGA**TATGCCTTCACTCAGAAGAAAAGAAATGAATGTGAAAGAAAGCCAAGCA
TCACTTGCACTTAAATCATTACCACGGAAGATATATTAGCTTCAACTTTAGTTTAAAATTATGTGAATAAATATT
TTGATTTCTACAAATCTTAACATTTAACCATGTTGGTTTAAAAATATTATTGCTTGCTACTTGGACATAACTAAT
TTTTCCTTGTGCATTTAATACCTCTGGGCAGAATCCAAATACTGGGTTCTCCCGTAGTTCGTCTTTAGTTACTAA.
GAAAGGGTGTAGGACACATTAGCCTTCTGGAAACAAGTAGAAGCCATCACCTGGCCCATGTCCCTACAAACCCAT
GATTGTCAGGGAGGTGCCAGTTACAGCAGGTGATTCAGCTACTTGAGGTCGGTAACAGACCTTCCATTCCTCACT
GAAGGTGGGGTTTGTGTTTTTGTTTTGCCCTGTTACTCCACTGGTAGTCATCTGGTGTTTGTACTATAACAACAG
CAAGAAAATCTCATTTATCTTTATATACTCTTTGCACCTCCTTTTTTTAGTCGAGATATAAATATTTGAGGGGAG
AGAAATATCTACAGGTATATATGGAAACAAATAATGTGGTCTGCTTTATAAGATGGCCAGATCTACATTAGGAAA
AGTATAAGCCCCCTCCCTAATGGCCGCTGGGGGGTGAGGGCGGTGTGTTGTATGTCTTTGGGTGTTTGTTTTTTT
ATAAAGCATATAATAAAATAATCGTGCTACT

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FIGURE 1385

MAAVPELLQQQEEDRSKLRSVSVDLNVDPSLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPTKPDFDGPREKMQKLGEGEGSMTKEEFAKMKQELEAEYLAVFKKTVSSHEVFLQRL
SSHPVLSKDRNFHVFLEYDQDLSVRRKNTKEMFGGFFKSVVKSADEVLFTGVKEVDDFFEQEKNFLINYYNRIKD
SCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYYML
NIEAAKDLLYRRTKALIDYENSNKALDKARLKSKDVKLAEAHQQECCQKFEQLSESAKEELINFKRKRVAAFRKN
LIEMSELEIKHARNNVSLLQSCIDLFKNN

FIGURE 1386

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GCCGCGCGCTGTGTCTCCGCTGCGTCCGCCGAGGCCCCCGAGTGTCAGGGACAAAAGCCTCCGCCTGCTCCCGCA
GCCGGGGGCTCATCTGCCGCCGCCGCCGCGCTGAGGAGAGTTCGCCGCCGTCGCCGCCCGTGAGGATCTGAGAGCC
ATGTCGGCCAGCAGCCTCTTGGAGCAGAGACCAAAAGGTCAAGGAAACAAAGTACAAAATGGATCTGTACATCAA
AAGGATGGATTAAACGATGATGATTTTGAACCTTACTTGAGTCCACAGGCAAGGCCCAATAATGCATATACTGCC
ATGTCAGATTCCTACTTACCCAGTTACTACAGTCCCTCCATTGGCTTCTCCTATTCTTTGGGTGAAGCTGCTTGG
TCTACGGGGGGTGACACAGCCATGCCCTACTTAACTTCTTATGGACAGCTGAGCAACGGAGAGCCCCACTTCCTA
CCAGATGCAATGTTTGGGCAACCAGGAGCCCTAGGTAGCACTCCATTTCTTGGTCAGCATGGTTTTAATTTCTTT
CCCAGTGGGATTGACTTCTCAGCATGGGGAAATAACAGTTCTCAGGGACAGTCTACTCAGAGCTCTGGATATAGT
AGCAATTATGCTTATGCACCTAGCTCCTTAGGTGGAGCCATGATTGATGGACAGTCAGCTTTTGCCAATGAGACC
CTCAATAAGGCTCCTGGCATGAATACTATAGACCAAGGGATGGCAGCACTGAAGTTGGGTAGCACAGAAGTTGCA
AGCAATGTTCCAAAAGTTGTAGGTTCTGCTGTTGGTAGCGGGTCCATTACTAGTAACATCGTGGCTTCCAATAGT
TTGCCTCCAGCCACCATTGCTCCTCCAAAACCAGCATCTTGGGCTGATATTGCTAGCAAGCCTGCAAAACAGCAA
CCTAAACTGAAGACCAAGAATGGCATTGCAGGGTCAAGTCTTCCGCCACCCCCGATAAAGCATAACATGGATATT
GGAACTTGGGATAACAAGGGTCCCGTTGCAAAAGCCCCCTCACAGGCTTTGGTTCAGAATATAGGTCAGCCAACC
CAGGGGTCTCCTCAGCCTGTAGGTCAGCAGGCTAACAATAGCCCACCAGTGGCTCAGGCATCAGTAGGGCAACAG
ACACAGCCATTGCCTCCACCTCCACCACAGCCTGCCCAGCTTTCAGTCCAGCAACAGGCAGCTCAGCCAACCCGC
TGGGTAGCACCTCGGAACCGTGGCAGTGGGTTCGGTCATAATGGGGTGGATGGTAATGGAGTAGGACAGTCTCAG
GCTGGTTCTGGATCTACTCCTTCAGAACCCCACCCAGTGTTGGAGAAGCTTCGGTCCATTAATAACTATAACCCC
AAAGATTTTGACTGGAATCTGAAACATGGCCGGGTTTTCATCATTAAGAGCTACTCTGAGGACGATATTCACCGT
TCCATTAAGTATAATATTTGGTGCAGCACAGAGCATGGTAACAAGAGACTGGATGCTGCTTATCGTTCCATGAAC
GGGAAAGGCCCCGTTTACTTACTTTTCAGTGTCAACGGCAGTGGACACTTCTGTGGCGTGGCAGAAATGAAATCT
GCTGTGGACTACAACACATGTGCAGGTGTGTGGTCCCAGGACAAATGGAAGGGTCGTTTTGATGTCAGGTGGATT
TTTGTGAAGGACGTTCCCAATAGCCAACTGCGACACATTCGCCTAGAGAACAACGAGAATAAACCAGTGACCAAC
TCTAGGGACACTCAGGAAGTGCCTCTGGAAAAAGGCTAAGCAGGTGTTGAAAATTATAGCCAGCTACAAGCACACC
ACTTCCATTTTTGATGACTTCTCACACTATGAGAAACGCCAAAGAGGAAGAAGAAAGTGTTAAAAAGGAACGTCA
AGGTCGTGGGAAATAAAAGGCAGTTCTACACAGACTGCAGCAACGGTTGCATCTGCATATCCTAAGAGGAAAAAA
TGACCTTCAAGAGAATTAGGACTTTTTTCTTAATTTCACTGACTTCAGAGACGATTGCAGACTTGCAGTTTAAGT
ATTGGAATTTCACAAAAGACATAGGACTTAACTGGAAAATGAAAAGAAAAGAAAAAGAAAAAACTAAACAAAAAA
TCCCTCTAGGTAGTTTAGGTGAAAAATGTCCCTTTTATTTTGGCTTTGGTTGTGATTTCAGAGCATAATGCTATG
TTTTTTGTCTTTTTACTATGTTTTTCGGATTTTTAAGTCCGTAAGTGCATACAGTTTTCTCTAATTTTTAAACCC
TTTCCTCCTCCCATTTGGACATTTGCACTTGGAGAACACTTGAGTTGTGAAGGTTTTGGGCATCCACCCCAGAAA
GTGGGAATTTGATTTTATCCTTCCGAACTGGAAGAACATTTTTATGAAGAATTTTTGTCTAGGAGAATATAACAG
TGTTACCCAAGGTTGTGTCTTTAAGGGTGGTTCATTTTCTCTGACCTTTTGTTACTCAAAGTAAAGTACTAGGAG
TCCTAAGAAATGTTCTGTTCTTGTACATTATACTGATTAAGTCAGGATTAATTTGATTTCAAAGCTGAGAACAGT
GGTAAAAACTCGTTTACAGAAATGCATTTTGGAAGAGAAAAATACTGTAAAACGTGTCGTGAATGTTTCTTCAGT
TTCTTGTTCAGCCAATGAGGAAAGGGCATTGCCTTTCTTTTTACCATTAATCACTTCTCAATAAACGTGAGATCC
TGTTGAGCATCAAAAAAAAAAAAAAAAAAAA
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FIGURE 1387

MSASSLLEQRPKGQGNKVQNGSVHQKDGLNDDDFEPYLSPQARPNNAYTAMSDSYLPSYYSPSIGFSYSLGEAAW
STGGDTAMPYLTSYGQLSNGEPHFLPDAMFGQPGALGSTPFLGQHGFNFFPSGIDFSAWGNNSSQGQSTQSSGYS
SNYAYAPSSLGGAMIDGQSAFANETLNKAPGMNTIDQGMAALKLGSTEVASNVPKVVGSAVGSGSITSNIVASNS
LPPATIAPPKPASWADIASKPAKQQPKLKTKNGIAGSSLPPPPIKHNMDIGTWDNKGPVAKAPSQALVQNIGQPT
QGSPQPVGQQANNSPPVAQASVGQQTQPLPPPPPQPAQLSVQQQAAQPTRWVAPRNRGSGFGHNGVDGNGVGQSQ
AGSGSTPSEPHPVLEKLRSINNYNPKDFDWNLKHGRVFIIKSYSEDDIHRSIKYNIWCSTEHGNKRLDAAYRSMN
GKGPVYLLFSVNGSGHFCGVAEMKSAVDYNTCAGVWSQDKWKGRFDVRWIFVKDVPNSQLRHIRLENNENKPVTN
SRDTQEVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKRQRGRRKC

FIGURE 1388

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GTGAAGAGAGGCGCGGCGTGACTGAGCTACGGTTCTGGCTGCGTCCTAGAGGCATCCGGGGCAGTAAAACCGCTG
CGATCGCGGAGGCGGCGGCCAGGCCGAGAGGCAGGCCGGGCAGGGGTGTCGGACGCAGGGCGCTGGGCCGGGTTT
CGGCTTCGGCCACAGCTTTTTTTCTCAAGGTGCAATGAAAGCCTTCCACACTTTCTGTGTTGTCCTTCTGGTGTT
TGGGAGTGTCTCTGAAGCCAAGTTTGATGATTTTGAGGATGAGGAGGACATAGTAGAGTATGATGATAATGACTT
CGCTGAATTTGAGGATGTCATGGAAGACTCTGTTACTGAATCTCCTCAACGGGTCATAATCACTGAAGATGATGA
AGATGAGACCACTGTGGAGTTGGAAGGGCAGGATGAAAACCAAGAAGGAGATTTTGAAGATGCAGATACCCAGGA
GGGAGATACTGAGAGTGAACCATATGATGATGAAGAATTTGAAGGTTATGAAGACAAACCAGATACTTCTTCTAG
CAAAAATAAAGACCCAATAACGATTGTTGATGTTCCTGCACACCTCCAGAACAGCTGGGAGAGTTATTATCTAGA
AATTTTGATGGTGACTGGTCTGCTTGCTTATATCATGAATTACATCATTGGGAAGAATAAAAACAGTCGCCTTGC
ACAGGCCTGGTTTAACACTCATAGGGAGCTTTTGGAGAGCAACTTTACTTTAGTGGGGGATGATGGAACTAACAA
AGAAGCCACAAGCACAGGAAAGTTGAACCAGGAGAATGAGCACATCTATAACCTGTGGTGTTCTGGTCGAGTGTG
CTGTGAGGGCATGCTTATCCAGCTGAGGTTCCTCAAGAGACAAGACTTACTGAATGTCCTGGCCCGGATGATGAG
GCCAGTGAGTGATCAAGTGCAAATAAAAGTAACCATGAATGATGAAGACATGGATACCTACGTATTTGCTGTTGG
CACACGGAAAGCCTTGGTGCGACTACAGAAAGAGATGCAGGATTTGAGTGAGTTTTGTAGTGATAAACCTAAGTC
TGGAGCAAAGTATGGACTGCCGGACTCTTTGGCCATCCTGTCAGAGATGGGAGAAGTCACAGACGGAATGATGGA
TACAAAGATGGTTCACTTTCTTACACACTATGCTGACAAGATTGAATCTGTTCATTTTTCAGACCAGTTCTCTGG
TCCAAAAATTATGCAAGAGGAAGGTCAGCCTTTAAAGCTACCTGACACTAAGAGGACACTGTTGTTTACATTTAA
TGTGCCTGGCTCAGGTAACACTTACCCAAAGGATATGGAGGCACTGCTACCCCTGATGAACATGGTGATTTATTC
TATTGATAAAGCCAAAAAGTTCCGACTCAACAGAGAAGGCAAACAAAAAGCAGATAAGAACCGTGCCCGAGTAGA
AGAGAACTTCTTGAAACTGACACATGTGCAAAGACAGGAAGCAGCACAGTCTCGGCGGGAGGAGAAAAAAAGAGC
AGAGAAGGAGCGAATCATGAATGAGGAAGATCCTGAGAAACAGCGCAGGCTGGAGGAGGCTGCATTGAGGCGTGC
AAAAAAGAAGTTGGAAAAGAAGCAAATGAAAATGAAACAAATCAAAGTGAAAGCCATGTAAAGCCATCCCAGAGA
TTTGAGTTCTGATGCCACCTGTAAGCTCTGAATTCACAGGAAACATGAAAAACGCCAGTCCATTTCTCAACCTTA
AATTTCAGACAGTCTTGGGCAACTGAGAAATCCTTATTTCATCATCTACTCTGTTTGGGGTTTGGGGTTTTACAG
AGATTGAAGATACCTGGAAAGGGCTCTGTTTCAAGAATTTTTTTTTCCAGATAATCAAATTATTTTGATTATTTT
ATAAAAGGAATGATCTATGAAATCTGTGTAGGTTTTAAATATTTTAAAAATTATAATACAAATCATCAGTGCTTT
TAGTACTTCAGTGTTTAAAGAAATACCATGAAATTTATAGGTAGATAACCAGATTGTTGCTTTTTGTTTAAACCA
AGCAGTTGAAATGGCTATAAAGACTGACTCTAAACCAAGATTCTGCAAATAATGATTGGAATTGCACAATAAACA
TTGCTTGATGTTTTCTTGTATGTCTACATTAAACTTGAGAAAAAGTAAAAATTAGAACACTGTATGTAGTAATGA
AATTTCAGGGACCCAGAACATAATGTAGTATATGTTTTTAGGTGGGAGATGCTGATAACAAAATTAATAGGAAGT
CTGTAGGCATTAGGATACTGACATGTACATGGAAAATTCTAGGGACAGGAGCATCATTTTTTCCTTACCTGATAC
CACGAACCAGTGACAACGTGAATGCTGTATTTTAAGTGGTTGTATGTTTATTTTCTTGAGTAACAAATGCATGAA
AAATTAATGCTTCACCTAGGTAAGATCATTGGTCTGTGTGAAATCACAAATGTTTTTTCCTTCTTGGTTGCTGCA
GCCTGGGTGGATGTTCATGGAGAAGCTCTGTTCTCTATATTATGGCTGTGTGCCGTTGCTTCTCCCTCTGCTTTT
ATCTTTTCCACAGTTGAGGCTGGGTATGTTCTTTCAAAGAAATGGCCATGAATATGTGTAAGTATACTTTTGAAA
ATGAGCTTTCCTAAACTATTGAGAGTTCTTTCCACCTCTTGCGGAACCAACTCTTGGAGGAGAGGCCCATGTATC
TGCACGAGCACTTAGCTTGTTCAGATCTCTGCATTTTATAAATGCTTCTTACCAAGAAAGCATTTTTAGGTCATT
GCTTGTACCAGGTAATTTTTGCCGGGGGATGGGTAAGGGTTGGGTTTTCTGGTGGGAGTGGGGTGGTGGGTATTTT
TTGTTGATGCTTTAGTGCAGGCCTGTTCTGAGGCAATAACAAGTTGCTGTGAAAACAGCATGTGCTGCTGCCTTT
GTAACTGCATGGAAACTTTTCACATGGGTTTTTCTCCAAGTTAATACAGAAATATGTAAACTGAGAGATGCAAAT
GTAATATTTTTAACAGTTCATGAAGTTGTTATTAAAATAACTAACATAAAACTTAATTACTTTAATATTATATAA
TTATAGTAGTGGCCTTGTTTTACAAACCTTTAAATTACATTTTAGAAATCAAAGTTGATAGTCTTAGTTATCTTT
TGAGTAAGAAAAGCTTTCCTAAAGTCCCATACATTTGGACCATGGCAGCTAATTTTGTAACTTAAGCATTCATAT
GAACTACCTATGGACATCTATTAAAGTGATTGACAAAATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1389

MKAFHTFCVVLLVFGSVSEAKFDDFEDEEDIVEYDDNDFAEFEDVMEDSVTESPQRVIITEDDEDETTVELEGQD
ENQEGDFEDADTQEGDTESEPYDDEEFEGYEDKPDTSSSKNKDPITIVDVPAHLQNSWESYYLEILMVTGLLAYI
MNYIIGKNKNSRLAQAWFNTHRELLESNFTLVGDDGTNKEATSTGKLNQENEHIYNLWCSGRVCCEGMLIQLRFL
KRQDLLNVLARMMRPVSDQVQIKVTMNDEDMDTYVFAVGTRKALVRLQKEMQDLSEFCSDKPKSGAKYGLPDSLA
ILSEMGEVTDGMMDTKMVHFLTHYADKIESVHFSDQFSGPKIMQEEGQPLKLPDTKRTLLFTFNVPGSGNTYPKD
MEALLPLMNMVIYSIDKAKKFRLNREGKQKADKNRARVEENFLKLTHVQRQEAAQSRREEKKRAEKERIMNEEDP
EKQRRLEEAALRRAKKKLEKKQMKMKQIKVKAM

FIGURE 1390A

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GGCACGAGCGAGGTTCGGGCTGGTTGTTCCGTTGCGAGCTGCAGCTGCGATCTCTGTGGTAGGCCCAGAAGTGTA
TGCTGACTTGTAAAGTGAAGAAGCCAGTGGTGCTGCGGGTGTTCTTTTGGGGTAGTGTCTGGGATCCAGTACGAG
TTGAATCATTGTTCAAATAAGGTGTAATTGAAAAGTGATCCTCTCTTCAGAGATGTCAAAAACAAACAAATCCAA
GTCTGGATCTCGCTCTTCTCGCTCAAGATCTGCATCAAGATCTCGTTCTCGTTCATTTTCGAAGTCTCGGTCCCG
AAGCCGATCTCTCTCTCGTTCAAGGAAGCGCAGGCTGAGTTCTAGGTCTCGTTCCAGATCATATTCTCCAGCTCA
TAACAGAGAAAGAAACCACCCAAGAGTATATCAGAATCGGGATTTCCGAGGTCACAACAGAGGCTATAGAAGGCC
CTATTATTTCCGTGGGCGTAACAGAGGCTTTTATCCATGGGGCCAATATAACCGAGGAGGCTATGGAAACTACCG
CTCAAATTGGCAGAATTACCGGCAAGCATACAGTCCTCGTCGAGGCCGTTCAAGATCCCGGTCCCCAAAGAGAAG
GTCCCCTTCACCAAGGTCCAGGAGCCATTCTAGAAACTCTGATAAGTCGTCTTCTGACCGGTCAAGGCGCTCCTC
ATCCTCCCGTTCTTCCTCCAACCATAGCCGAGTTGAATCTTCTAAGCGCAAGTCTGCAAAGGAGAAAAAGTCCTC
TTCTAAGGATAGCCGGCCATCTCAGGCTGCCGGGGATAACCAGGGAGATGAGGTCAAGGAGCAGACATTCTCTGG
AGGCACCTCTCAAGATACAAAAGCATCTGAGAGCTCGAAGCCATGGCCAGATGCCACCTACGGCACTGGTTCTGC
ATCACGGGCCTCAGCAGTTTCTGAGCTGAGTCCTCGGGAGCGAAGCCCAGCTCTCAAAAGCCCCCTCCAGTCTGT
GGTGGTGAGGCGGCGGTCACCCCGTCCTAGCCCCGTGCCAAAACCTAGTCCTCCACTTTCCAGCACATCCCAGAT
GGGCTCAACTCTGCCGAGTGGTGCCGGGTATCAGTCTGGGACACACCAAGGTCAGTTCGACCATGGTTCTGGGTC
CCTGAGTCCATCCAAAAAGAGCCCTGTGGGTAAGAGTCCACCATCCACTGGCTCCACATATGGCTCATCTCAGAA
GGAGGAGAGTGCTGCTTCAGGAGGAGCAGCCTATACAAAGAGGTATCTAGAAGAGCAGAAGACAGAGAATGGAAA
AGATAAGGAACAGAAACAAACAAATACCGATAAAGAAAAAATAAAAGAGAAAGGGAGCTTCTCTGACACAGGCTT
GGGTGATGGAAAAATGAAATCTGATTCTTTTGCTCCCAAAACTGATTCTGAGAAGCCTTTTCGGGGCAGTCAGTC
TCCCAAAAGGTATAAGCTCCGAGATGACTTTGAGAAGAAGATGGCTGACTTCCACAAGGAGGAGATGGATGATCA
AGATAAGGACAAAGCTAAGGGAAGAAAGGAATCTGAGTTTGATGATGAACCCAAATTTATGTCTAAAGTCATAGG
TGCAAACAAAAACCAGGAGGAGGAGAAGTCAGGCAAATGGGAGGGCCTGGTATATGCACCTCCAGGGAAGGAAAA
GCAGAGAAAAACAGAGGAGCTGGAGGAGGAGTCTTTCCCAGAGAGATCCAAAAAGGAAGATCGGGGCAAGAGAAG
CGAAGGTGGGCACAGGGGCTTTGTGCCTGAGAAGAATTTCCGAGTGACTGCTTATAAAGCAGTCCAGGAGAAAAG
CTCATCACCTCCCCCAAGAAAGACCTCTGAGAGCCGAGACAAGCTGGGAGCGAAAGGAGATTTTCCCACAGGAAA
GTCTTCCTTTTCCATTACTCGAGAGGCACAGGTCAATGTCCGGATGGACTCTTTTGATGAGGACCTCGCACGACC
CAGTGGCTTATTGGCTCAGGAACGCAAGCTTTGCCGAGATCTAGTCCATAGCAACAAAAAGGAACAGGAGTTTCG
TTCCATTTTCCAGCACATACAATCAGCTCAGTCTCAGCGTAGCCCCTCAGAACTGTTTGCCCAACATATAGTGAC
CATTGTTCACCATGTTAAAGAGCATCACTTTGGGTCCTCAGGAATGACATTACATGAACGCTTTACTAAATACCT
AAAGAGAGGAACTGAGCAGGAGGCAGCCAAAAACAAGAAAAGCCCAGAGATACACAGGAGAATAGACATTTCCCC
CAGTACATTCAGAAAACATGGTTTGGCTCATGATGAAATGAAAAGTCCCCGGGAACCTGGCTACAAGGCTGAGGG
AAAATACAAAGATGATCCTGTTGATCTCCGCCTTGATATTGAACGTCGTAAAAAACATAAGGAGAGAGATCTTAA
ACGAGGTAAATCGAGAGAATCAGTGGATTCCCGAGACTCCAGTCACTCAAGGGAAAGGTCAGCTGAAAAAACAGA
GAAAACTCATAAAGGATCAAAGAAACAGAAGAAGCATCGGAGAGCAAGAGACAGGTCCAGATCCTCCTCCTCTTC
CTCCCAGTCATCTCACTCCTACAAAGCAGAAGAGTACACTGAAGAGACAGAGGAAAGAGAGGAGAGCACCACGGG
CTTTGACAAATCAAGACTGGGGACCAAAGACTTTGTGGGTCCAAGTGAAAGAGGAGGTGGCAGAGCTCGAGGAAC
CTTTCAGTTTCGAGCCAGAGGAAGAGGCTGGGGCAGAGGCAACTACTCTGGGAACAATAACAACAACAGCAACAA
CGATTTTCAAAAAAGAAACCGGGAAGAGGAGTGGGACCCAGAGTACACACCCAAAAGCAAGAAGTATTACTTGCA
TGATGACCGTGAAGGCGAAGGCAGTGACAAGTGGGTGAGCCGGGGCCGGGGCCGAGGAGCCTTTCCTCGGGGTCG
GGGCCGGTTCATGTTCCGGAAATCAAGTACCAGCCCCAAGTGGGCCCATGACAAGTTCAGTGGGGAGGAAGGGGA
GATTGAAGACGACGAGAGTGGGACAGAGAACCGAGAAGAGAAGGACAATATACAGCCCACAACCGAGTAGGGGCC
ACCCTTGACGGGATTCCTGCCCAGGGGAGAGAGGCGCTGGGAAGATGGCTGGTGAGGAGCTTAACAGAGGAACCT
CAAGAAGATTCTGAAAATCCTACCCCCACCCCCCACCAGCCGCACAGATTGTACTACCGCGAGAGGCATCCCTGG
CGCTGTCTCCCACTGGACAGAGGAGGCTGGCCATGGGGCCCAGGGGTCAGGCCCAGCTTTTGAGCAGAATACAAC
GCATTGGGCTTTAGCTGTTTTTCTCATTTGTTGGTGTGTGGGGTGGGGGCAGGGTAGGGCGGGAGAGCGATGCT
TGGATTTTTGTTTCCTATTAGAAACCAACAGTTTTGTTCTAATTTCATTTCATTTGGAGCTAAGATGACTAATTT
GATGATTTTCGATCTCTTTTCCCCTGTCCTGATTTTAAAAGCCCCCTCCTTTTTTTTTTTTTTTTTTTCTTTTTTT
AGGCATATGTAGTAATATTAGAAACATTTAATTTGGGAAACTTTGATTCTTGAAAGAGAAAACAAAAGCATGTGA
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FIGURE 1390B

ATAAACTTTGCTCGTGCC

FIGURE 1391

MSKTNKSKSGSRSSRSRSASRSRSRSFSKSRSRSRSRSLSRSRKRRLSSRSRSRSRSYSPAHNRERNHPRVYQNRDFRG
HNRGYRRPYYFRGRNRGFYPWGQYNRGGYGNYRSNWQNYRQAYSPRRGRSRSRSPKRRSPSPRSRSHSRNSDKSS
SDRSRRSSSSRSSSNHSRVESSKRKSAKEKKSSSKDSRPSQAAGDNQGDEVKEQTFSGGTSQDTKASESSKPWPD
ATYGTGSASRASAVSELSPRERSPALKSPLQSVVVRRRSPRPSPVPKPSPPLSSTSQMGSTLPSGAGYQSGTHQG
QFDHGSGSLSPSKKSPVGKSPPSTGSTYGSSQKEESAASGGAAYTKRYLEEQKTENGKDKEQKQTNTDKEKIKEK
GSFSDTGLGDGKMKSDSFAPKTDSEKPFRGSQSPKRYKLRDDFEKKMADFHKEEMDDQDKDKAKGRKESEFDDEP
KFMSKVIGANKNQEEEKSGKWEGLVYAPPGKEKQRKTEELEEESFPERSKKEDRGKRSEGGHRGFVPEKNFRVTA
YKAVQEKSSSPPPRKTSESRDKLGAKGDFPTGKSSFSITREAQVNVRMDSFDEDLARPSGLLAQERKLCRDLVHS
NKKEQEFRSIFQHIQSAQSQRSPSELFAQHIVTIVHHVKEHHFGSSGMTLHERFTKYLKRGTEQEAAKNKKSPEI
HRRIDISPSTFRKHGLAHDEMKSPREPGYKAEGKYKDDPVDLRLDIERRKKHKERDLKRGKSRESVDSRDSSHSR
ERSAEKTEKTHKGSKKQKKHRRARDRSRSSSSSSQSSHSYKAEEYTEETEEREESTTGFDKSRLGTKDFVGPSER
GGGRARGTFQFRARGRGWGRGNYSGNNNNNSNNDFQKRNREEEWDPEYTPKSKKYYLHDDREGEGSDKWVSRGRG
RGAFPRGRGRFMFRKSSTSPKWAHDKFSGEEGEIEDDESGTENREEKDNIQPTTE

FIGURE 1392

CTGGGGGCGGGGCAGGGGCAGGTGTAGCCTCTGTGCCTCGTTGTCCCCTGGCGCTACCCGGACATCTCTCAGGGT
GCCGGCACC**ATGA**AGATCTGGACTTCGGAGCACGTCTTTGACCACCCGTGGGAAACTGTTACAACAGCTGCAATG
CAGAAATACCCAAACCCTATGAACCCAAGTGTGGTTGGAGTTGATGTGTTGGACAGACATATAGATCCCTCTGGA
AAGTTGCACAGCCACAGACTTCTCAGCACAGAGTGGGGACTGCCTTCCATTGTGAAGTCTCTTATTGGTGCAGCA
AGAACGAAAACATATGTGCAAGAACATTCTGTAGTTGATCCTGTAGAGAAAACAATGGAACTTAAATCTACTAAT
ATTTCATTTACAAACATGGTTTCAGTAGATGAGAGACTTATATACAAACCACATCCTCAGGATCCAGAAAAAACT
GTTTTGACACAAGAAGCCATAATTACCGTGAAAGGAGTTAGCCTCAGCAGTTACCTTGAAGGACTGATGGCAAGT
ACGATATCCTCAAATGCTAGTAAAGGCCGAGAAGCAATGGAATGGGTAATACATAAATTAAATGCTGAGATTGAA
GAACTGACAGCCTCAGCAAGAGGAACCATAAGGACTCCAATGGCAGCAGCAGCGTTTTGCAGAGAAGTGATCGTG
ACAGTTGGTAGACAACATCGGGTACTCCAGGTCTCTCCAAAC**TGA**CTATATATTTATTTGTTATTTTAAAAATAC
AACTATATTTTGGGTAGTTTTTTTTTTTTTTTTTTTTGATAAGTTGGTGTAAGGCTATGTGACTTGATCAAAACA
GATGCAGGGCCTCTAAATAAAAGGGATCATCTGAAATTAATGTTGTTTGAAATTACTATCTGATTTTGAGGGTTC
CAGTATTTCTGTGAAAATTCAACAAGAACTCCTTGGAAACTGGTATTGATATTCAGTCTCCTTAAGGTAGATTTT
TCAAGCTTTTCATACATTGGAACTCCACCTGACTTTGGACCAACCCCAGAACAGAGCAGAGCCACCTCCTATAGA
CGCCCATTGCCCTGCTGCTGTACACTTCAGCAGCTTGCACAAGGGAGCTCACTTAAAAGGAGAAATTGTGTAGTT
TTAAAATATATTTGTGTAAAATACCTTACTATGCTATAAACCACCATTAAAAACCAGTGTTTTGATTTGGTACT
TAAATATTTTTGGAGTGAAAATTATCACTAAAGTAACATGACTCCAACAAAAGTATGGTTTCATTATAAAGAGT
ACTGTATTGATTTGCCCAAGTTTTGTAACTTAGTAAAGGTATTAACTTCCTTGGATTTGTACTTTGTGATTTAGT
ATGCTGTATCGTGGGCTGGTTATGTTAACTGAAAAAAATAAAGTCATTACCTGAGTTTTGCAGTGCTCTAACTTA
AACAGAAGAACAGCTGTTCACATCTTTTAGCATTTTACATTTGCCTAACTTAAAAATTGCCATGTGTCAAAATCA
TGGTTTTGTAATTGCTAAGGCATGATATGTCAGGTTATTTGAATATAATTACTTTTTGAAGTAATTGTGACCACA
AAACATCTTTTTTACATGAAGGAGCTGTGTATCATTTGAAATTACTCAAATGATGTCTTGCTCTGAGGCATAAAT
CCCAGGTACTTAGTGTTTTTAATAATATGGTGCCACTGCAGGATTGGGGGCGGTGGGGAAGAACAAGCATAATG
GTAGGGGGAGGCTTGGCCTGAAACTAACCACTGAGTGAATTGCACTGCAGGTTTTACTTAACGGGAATTCCTTAT
TTGGGATGTCAAGAGGGCAGCTGCAAACTGAAAAACAATCCAGTAAATGTACTTTGTTTTATGTATTGTAGCAGG
CAATTAACTACTAAATAATAGCTTTGACATTTGCAATTGTTGCATAGAGACTATTTTTGCTAGAAGATGATTAGC
TCTTGCCTTTATTTTACAGTGCTTAGTGTGATAAACTTCTAGTCATGTTTCCTATCCAAGAGACCAGTTAATATA
TGTACATAAACCACAGAAATAGTATAACACACTATTTTTAAATTATCGTTTTCCTACTTAAATTTTGTTTAGCTT
AAGCTTCTTAGGACATTTGTAAAAGCAGGTTAAATTTAATAAGGTTTCTGATTTTTTTTTGTAACCGGAGATAG
TTTTTACAAGTGAAATAACATTTCAGCTAAATAAAACATCGCTAAATAATTGATATTTGATGAAAATCTGCTTTG
TATAATTTCTGTAAATTATCCTTGTTCTGAAAAAGGTGTAATGCCCTAATATTTTTAAATCCTTATCCTTTGATT
TTTTAAAAACTGACCTATTGATAAAACTATAAATTTTCATTTTCCAGTGCAGTTAGTTACCTTTTTAAACATAAA
TGCACAACAAGCAAATGAATTTAAGAGAACTAAACTGGAATAAGTGTTCATAAATGAAACCCTTGGACTATTTAA
TAAAGTTGAAATGTGAATTAAGGAAAACTTTTGTTAATAAAAACTTTCTTTTAAAAAAAA

FIGURE 1393

MKIWTSEHVFDHPWETVTTAAMQKYPNPMNPSVVGVDVLDRHIDPSGKLHSHRLLSTEWGLPSIVKSLIGAARTK
TYVQEHSVVDPVEKTMELKSTNISFTNMVSVDERLIYKPHPQDPEKTVLTQEAIITVKGVSLSSYLEGLMASTIS
SNASKGREAMEWVIHKLNAEIEELTASARGTIRTPMAAAAFCREVIVTVGRQHRVLQVSPN

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FIGURE 1394

ATATGATCCGCTCGGCTTCCTGGGTCTGGCTGCTGCCGCCCGCCGGTGTCCGCCCGTGTCGCGCCGGGGCACCAA
GGAGCCGTTGGAGGGTCCGGGCGGAGGCCCGCTCGTGTGGAAGTCGTCGACGCCGCCGCTCGTCCGTCCTCCCGT
CCGTTCTCGCTCCCGGCCGCCATC**ATG**CTGGCGCTCATCTCCCGCCTGCTGGACTGGTTCCGTTCGCTCTTCTGG
AAGGAAGAGATGGAGCTGACGCTCGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCAATGTCATCGCGTCA
GGTCAATTCAGTGAAGATATGATACCCACAGTGGGCTTCAACATGAGGAAGGTAACTAAAGGTAACGTCACAATA
AAGATCTGGGACATAGGAGGACAACCCCGATTTCGAAGCATGTGGGAGCGGTATTGCAGAGGAGTCAATGCTATT
GTTTACATGATAGATGCTGCAGATCGTGAAAAGATAGAAGCTTCCCGAAATGAGCTACATAATCTTCTAGATAAA
CCACAGTTACAAGGAATTCCAGTGCTAGTGCTTGGAAACAAGAGAGATCTTCCTAATGCCTTGGATGAGAAACAG
CTAATTGAAAAAATGAATCTGTCTGCTATTCAGGATAGAGAAATTTGCTGCTATTCAATTTCTTGCAAAGAAAAG
GATAATATAGATATCACACTTCAGTGGCTTATTCAGCATTCAAAATCTAGAAGAAGC**TGA**AGCATCTCTTGAAGT
CTTCCAGTCCTTCTTGGCTATAATCCTAGAATTATTGTCCGTTCCTCTGAAGTAATTCCCAGAATACGGTCCTTC .
CTAAACCCCAGAAATTGCCTTTTTCAGAGTCTATTTCTCATGTGCACTGCTGAAGATGAATATCCCTAATCCTTC
ATAAAGAATCAGCTAGAGTTGTCATGATAAAGTCAGCACACACAAAAAGGCTTCTTACACATACCAAAAAAAATG
TCTTAAACCATGTGTAGAGCTTTAAAAACAGAAAAAAAAACCCCATATACTTATGACCATCTTAAATCAAGAAAT
TGCATATTTCCATTCTGGTCTTTCTGGGCCAGATTTTTATATTGGTTTTCAGTAAATGTCTATCTATAATATTTC
ATTATAGAGTCCAGTAGCTTAATACTGACACTGACTTGATACAGCACGAAGTTTCTAGTGCCACACACAGTATTT
AGAAAACCTTTAGGCGTGAATGACTCATGTGGGATATATGTAAACATAATGTTTATTTTATCTCACAAATGCATG
TGAAATGTATAATTACATCTTAGGAATCCAAAATGGTCTGCAGAGAGTGAGCGGAGGCACCAGATCAATGTTGGT
TCTTTGCACTGGTGAGATTCTGCCTGATGAATATTAAAGATATCCTGCTTTCTGAGAACTCTATCACCAGATGGC
AGTTGGGATATGGGAGGAACTAAAGCATCCTGTTTTGTATCTGTCCAGATCATTATTTCTGTCTCTTGTTTTTTC
TTCCTGGTTCAGGATACTTTTTTAAGGGGTTGAGAATTGAAGATTTTCCAAAAGCGTTCATGAATTTAGAGCATT
CCACCCAATATAATAAAACCTGTTAAGAATGTCAGTCTTTGTTCAAACATCTGTTTGTTCTATCTCCAGTCATTA
AATCAGTGCTGCTGCATGACACTCTTAACTCCTGACTTTTTATATCCAGTCATAAAGTTGACTTTCAGCACAAAA
GATACTTATAAACAAATAAAAAATTTTTATTTTTCTCTCTTACTGATGTAAGCTTTGGCACTCTTTTGACTGGTG
CCATTAGACATCTTGATTATTGTGACAACTCTAGACCTGCCTGCTTTATCTAATGTAATCATGCTCAATGTCTAC
AGGTTGTTTAATAATCAGTCACACAGAGAACTGAGGAACTGATGCTGTTTGTTTGCTTCTATGATACAGAGATGT
CTAAAAACTTCAAATGGACATGTTTTGTAGTTTAGCGACTTCCGTATACATAAAGGGACATATTAATACTGGTTC
ATTTGTAAATTATTATTCATATAGACCACTGTAGTAGATAAAACTCTATGGTACACCTGCTTATGTGTTGCCTCA
CACTGTGTGTGATTTTGTTTCTTTTGTTAAGCAGCACTTATGTAGACTGCATTTCCAAATGTGTTGAGCACTCGG
AGTGTAGTCAACAGTAAGTTCTTTTAATGAATATCAGTTTTAATTTATAGACTGCCATGGCCTTAAAAATATTCT
GTACAATATACTGCACTGTGTTGCACAGACACTACTTGCTTTTCTCCATTCATATTTTTATGAGTAGAATCTGGG
CTTTTAAATTTCTCTTCTTATTCTTTGAAGCATGTTGCATACTACCCTGGTGGGATGGATGGTTCTGTAAATGAA
GGGATATTTAAACTTGCTACTGTTGTTCAACACCATTAATGGTCAGTGTGAACCATTACAAAGAATGTGGCAACT
TGCTTGTGCCTAAAAGGAGGAATTGGAACTAGAATGTGTGACTCTGTGGGGACTGCATAGGTTTGTTAATTGACC
TATAGCTAAACCTTAATGTGTTTGTGTGTCTATACATTGCTTTCCGCATTTCAAGACATCCAGACGCTATTACCA
ACATTTTCCTGTGCATTAACCTCTGCATGTGAAAACTTTTAACAGTTACTGAACTATGTAAATATGTGAATTTTT
TTATTTAGGTGGATGCATTTTTTGTCTGTTTACTGCTCTTCTCAGCTTTATTCAATAAACTTGCATTTTAAGGGT
TGTATTGGCAATTTTAACTTAAAATGTGCATCATGATGGAAGGTGCAGACTTTTTTGGAAGTTTCCGAGAGGAGG
GTCTATAGACCATTTGTCAGAAATCAGATCAGCCCTCAAAGAATGGGGTCTGTGGGCTAGTTAAAATAGAAATAA
ACTTTTAAAATATCCACAG

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FIGURE 1395

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTKGNVTIKIWDIGGQ
PRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLLDKPQLQGIPVLVLGNKRDLPNALDEKQLIEKMNLS
AIQDREICCYSISCKEKDNIDITLQWLIQHSKSRRS

1538/2682

FIGURE 1396

GAGCGGCACAGACGAGATCTCGATCGAAGGCGAG**ATG**GCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGA
TTTCGCCATGGATGAGGATGGGGACGAGAGCATTCACAAACTGAAAGAAAAAGCGAAGAAACGGAAGGGTCGCGG
CTTTGGCTCCGAGGGGTCCCGAGCGCGGATGCGTGAGGATTATGACAGCGTGGAGCAGGATGGCGATGAACCCGG
ACCACAACGCTCTGTTGAAGGCTGGATTCTCTTTGTAACTGGAGTCCATGAGGAAGCCACCGAAGAAGACATACA
CGACAAATTCGCAGAATATGGGGAAATTAAAAACATTCATCTCAACCTCGACAGGCGAACAGGATATCTGAAGGG
GTATACTCTAGTTGAATATGAAACATACAAGGAAGCCCAGGCTGCTATGGAGGGACTCAATGGCCAGGATTTGAT
GGGACAGCCCATCAGCGTTGACTGGTGTTTTGTTCGGGGTCCACCAAAAGGCAAGAGGAGAGGTGGCCGAAGACG
CAGCAGAAGTCCAGACCGGAGACGTCGC**TGA**CAGGTCCTCTGTTGTCCAGGTGTTCTCTTCAAGATTCCATTTGA
CCATGCAGCCTTGGACAAATAGGACTGGGGTGGAACTTGCTGTGTTTATATTTAATCTCTTACCGTATATGCGTA
GTATTTGAGTTGCGAATAAATGTTCCATTTTTGTTTTCTAC

1539/2682
FIGURE 1397

MADVLDLHEAGGEDFAMDEDGDESIHKLKEKAKKRKGRGFGSEGSRARMREDYDSVEQDGDEPGPQRSVEGWILF
VTGVHEEATEEDIHDKFAEYGEIKNIHLNLDRRTGYLKGYTLVEYETYKEAQAAMEGLNGQDLMGQPISVDWCFV
RGPPKGKRRGGRRRSRSPDRRRR

1540/2682
FIGURE 1398A

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TGAGGCGCGGGAGGCCCGCGCCCCGCGGCTCGCTGTGCGTGGGAGGGCGCGAGCGAACGCGGGCGAGGAGCGGCC
GAGCCGCTGAAGAGGAGCTGGGCGCCGGCCGCCCGGCCGCGCTCGGCCCGCGGATCGCCTCCGCCCGGTCTTCGC
CGGCCCCGGCCCCTGGCGAGATGCCGTGTGGGGAGGATTGGCTCAGCCACCCGCTGGGAATCGTGCAGGGATTCT
TCGCCCAAAATGGAGTTAATCCTGACTGGGAGAAGAAAGTAATTGAGTATTTTAAGGAAAAGCTGAAGGAAAATA
ATGCTCCTAAGTGGGTACCATCACTGAACGAAGTTCCCCTTCATTATTTGAAACCTAATAGTTTTGTGAAATTTC
GTTGCATGATTCAGGATATGTTTGACCCTGAGTTTTACATGGGAGTTTATGAAACGGTTAACCAAAACACAAAAG
CACATGTTCTTCATTTTGGAAAATATAGAGATGTAGCAGAGTGTGGGCCTCAACAAGAACTTGATTTAAACTCTC
CACGAAATACCACTTTGGAAAGACAGACTTTCTATTGTGTTCCGGTGCCTGGGGAATCTACGTGGGTAAAAGAAG
CCTATGTTAATGCAAACCAAGCTCGAGTCAGTCCCTCAACATCCTACACTCCTAGTCGCCACAAGAGGAGTTATG
AAGATGATGACGATATGGACCTACAGCCCAATAAGCAGAAAGACCAACATGCAGGTGCCAGACAAGCAGGGAGTG
TTGGTGGTCTTCAATGGTGTGGAGAGCCAAAACGTTTAGAAACTGAAGCTTCTACTGGGCAACAGCTGAACTCTC
TGAACTTGTCTTCTCCTTTTGATTTGAATTTTCCATTGCCAGGAGAGAAGGGCCCTGCATGCCTTGTGAAGGTTT
ATGAAGATTGGGATTGTTTCAAAGTAAATGACATTCTTGAGCTATATGGCATACTGTCTGTGGATCCTGTGCTGA
GTATACTGAATAATGATGAAAGGGATGCCTCTGCACTGCTGGATCCGATGGAGTGCACAGACACAGCAGAGGAGC
AGAGAGTACACAGTCCTCCTGCTTCATTAGTGCCGAGAATTCATGTGATCTTAGCCCAGAAGTTGCAACACATCA
ACCCATTATTGCCTGCCTGCCTTAACAAAGAGGAGAGCAAAACCTGTAAGTTTGTTTCAAGTTTCATGTCCGAAT
TGTCTCCAGTCAGAGCAGAACTTCTTGGGTTCCTTACTCATGCCCTTCTGGGGGATAGTTTGGCTGCTGAATACC
TTATATTACATCTCATCTCCACAGTATATACAAGAAGAGATGTCCTTCCACTAGGAAAATTTACAGTTAACTTGA
GTGGTTGCCCACGGAATAGTACCTTCACAGAACACTTGTATCGAATTATTCAACATCTTGTTCCAGCATCTTTTC
GTCTGCAGATGACTATAGAGAACATGAACCATTTGAAATTCATTCCCCACAAAGACTACACAGCCAATCGCTTGG
TCAGTGGGCTCCTCCAGCTGCCCAGCAATACTTCCCTTGTAATCGATGAGACTCTCCTGGAACAGGGGCAGCTGG
ATACCCCAGGTGTTCATAATGTGACAGCCCTGAGCAACCTCATAACGTGGCAGAAGGTGGATTATGACTTCAGCT
ACCATCAGATGGAATTCCCCTGCAATATTAACGTTTTCATTACTTCGGAGGGGAGGTCACTCCTCCCGGCAGACT
GCCAGATTCACTTACAGCCCCAGCTAATTCCACCAAACATGGAGGAGTACATGAACAGCCTTCTCTCAGCGGTGC
TGCCTTCCGTGCTGAACAAATTCCGCATTTATCTAACTCTTTTGAGATTCTTGGAATATAGCATATCTGATGAAA
TAACCAAGGCAGTTGAAGATGACTTTGTGGAAATGCGGAAGAACGACCCTCAGAGCATCACTGCTGATGATCTTC
ACCAGCTGCTCGTGGTGGCTCGGTGTCTGTCTCTCAGTGCTGGTCAGACAACGCTGTCAAGAGAACGATGGCTGA
GAGCAAAGCAGCTAGAGTCTTTAAGAAGAACGAGGCTTCAGCAGCAAAAATGTGTGAATGGAAATGAACTTTAAA
GATGTAATACCTATGAAGAGTAATGGGCAAACTGTAGCCACATAATTGTAAAATTCAGATATTCATTTATACCAC
ATTGTTTTATAGGTAATTTCTATCACAAACCAGTGACATTTCCTGAAATCAAGCCTGGTAACACCTGATGTTTAT
ATGATATTCAGTAAGGACTTTTACCTTACTGATTTCATGGAGCTTTTGAAGTTTGTTTTATAATAATTATATAAA
TTAGTAATGATGTAAAAAAAGTATTTGATATTAAAAGTTTAATATTGATAATGTTGCTGATTGTACCATTTCCTT
AGCTTCAGCTGAGTCATAGGCCAGACTGTTGAAATGCTGAAATGAAGAAGGTTGTTGCAGTTTCAAAGTCAGAGG
AATCGTGCTTCGGATTTCTTATGTTTTCTAGTTCTCTGTTTTTCCAGTTCACAGTGGGTTGGGGTGCATTCAGTA
GTCCATCTTTGGGGAACGGAGGCGTACTTGCCATTGATTCACATGACTACATGAAATTCTGTACTGTCATTTCCC
AGATGTTTGGCCACAGAAACTTTTTCCCACTTAACATTTGTTAACAGCCTGCAAAACTAAACTTGTACATGGCAG
TGGTTCCCAGACTTTTGTATTTTATGGACCGGTAGTAATATTTCCAAAAATCTGGGGTACTATAAGGTTGCCAAT
TTACCTTGCCAAGTAATCCGAATAAATCACTGTATTATCACCATTTTTTTTCATAAAAGGAAAGGACAATCTATCT
CTGAATAAGAGGAGTCCTTTAAACGGAATGAATGTGGCTTTTGGGGGCAAAAGAAACCAAGACACTACATTGTCT
TTATTTTCTCCTATCCCAGTGCATTTGAGAACCATGCATAAGGGAATGCTGTGCTACAAAGCTGTGCCCAAATAT
GAAAACAAAATAGGAAACTTAAAAAGCAATACCCCCTTTAGAAAGTTTTTATTTTCTTAAATGTCATTGAGTTGC
TTTGATTCTATTGGATTTTTGGCATTTTTTATGGGATCATCAGTTGGTTCCAAGTATGTTAGATCAGCTAACATC
TGCTACTCCAGTAACAGCCTCGTACAACTGCAGGTAGGTTTTCTCCAGACCAATTAGTTTTAATAGAGCAAACTA
ACAACAGACTGTAGTAGCATGGTTATGGCAACCAGAATCTTCAGAAAGGTTAGGACATTACTTTTTAAGCTGTCA
GTGGTATCAAATAACTTACCTAGTTGGAGGCAGATAAAGGATCCCTTACGTTTTTTCCTATAAGGCCTAAATTGA
AATTGTTAACCAAGGAAACAGGGTCAGCCTTGAAAAATCAAGGAATTCATTGTACCTAATAACTGAAGTAAAAAT
AACTAGTTGTTCAACTTTTCCTAAACTCAAATCTATTTTTATAAACAAATGTAAATAATGTTTATATTAGAGTTG
AACTGGTTTTCATTTTTATAACTGGTAGACTAGACCTTCCTTAAACTTTTAGAAATAAAATGAAGGCTTCACTGG
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FIGURE 1398B

ATTTGTGAGGATAAAATACATTTTCTTTAATTGTCCTAGAGCAAAGTACATTAGTCACCATGTGTTTTTTGTGCC
AATGTAACTTGTAATTTACCAAAGAAAAATACATACATTGCTTGGTCTTGCAGAAAAGTTCCCTTGAAAGAACCT
TTCCAATAAATAAAACGTCCCAAATTAGCAGTACCTTGGGCTGTTTTTCATGAGTAAGAAGATTCACCATCCCAT
GTGATCTGTGTGGAAAAAGACCATGTCCTCTTGGTGGAAGACATGAGAGAGCTGAACTGAAGTGGAGGAGGTGGT
GCAAGAGGGACCTTCCTGCTCAAGGCCCGCCCAGGCAGCGGAATAGAGTGCAGTGCTTGGCTGCAGAAACCCTTT
GTCCCTCACCTATATATACACGGACAGTCAAGTTTGTTGCTCTAACGTAAGGCACAGCGTTAATCCTGTATGGCC
AGGAAACTGAGTAGACTCCTGTGTAACCCTGTTTGGAACTTTGCCTTCTTAAAATGATTTTTC

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FIGURE 1399

MPCGEDWLSHPLGIVQGFFAQNGVNPDWEKKVIEYFKEKLKENNAPKWVPSLNEVPLHYLKPNSFVKFRCMIQDM
FDPEFYMGVYETVNQNTKAHVLHFGKYRDVAECGPQQELDLNSPRNTTLERQTFYCVPVPGESTWVKEAYVNANQ
ARVSPSTSYTPSRHKRSYEDDDDMDLQPNKQKDQHAGARQAGSVGGLQWCGEPKRLETEASTGQQLNSLNLSSPF
DLNFPLPGEKGPACLVKVYEDWDCFKVNDILELYGILSVDPVLSILNNDERDASALLDPMECTDTAEEQRVHSPP
ASLVPRIHVILAQKLQHINPLLPACLNKEESKTCKFVSSFMSELSPVRAELLGFLTHALLGDSLAAEYLILHLIS
TVYTRRDVLPLGKFTVNLSGCPRNSTFTEHLYRIIQHLVPASFRLQMTIENMNHLKFIPHKDYTANRLVSGLLQL
PSNTSLVIDETLLEQGQLDTPGVHNVTALSNLITWQKVDYDFSYHQMEFPCNINVFITSEGRSLLPADCQIHLQP
QLIPPNMEEYMNSLLSAVLPSVLNKFRIYLTLLRFLEYSISDEITKAVEDDFVEMRKNDPQSITADDLHQLLVVA
RCLSLSAGQTTLSRERWLRAKQLESLRRTRLQQQKCVNGNEL

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FIGURE 1400

TGTTCTTGAGCCCAGCTTCTTCTCGTCTCCCACCCCAGCTTCCCGGCATTGGAAGAAGGGACCGTCCTCTTCCTT
GTCTTGGCCACCCAAATCCTGGTATCGAAAGGGTTGAACGGACCGGAAGTGTGCAGCAGCGACGGGTCCCCAGCT
AATCGACGCCGGAAGTAGCAATTACTAGACAAGCATTCCGCCGCCGGCTTCGCT**ATG**GCGGCAATTCCCCCAGAT
TCCTGGCAGCCACCCAACGTTTACTTGGAGACCAGCATGGGAATCATTGTGCTGGAGCTGTACTGGAAGCATGCT
CCAAAGACCTGTAAGAACTTTGCTGAGTTGGCTCGTCGAGGTTACTACAATGGCACAAAATTCCACAGAATTATC
AAAGACTTCATGATCCAAGGAGGTGACCCAACAGGGACAGGTCGAGGTGGTGCATCTATCTATGGCAAACAGTTT
GAAGATGAACTTCATCCAGACTTGAAATTCACGGGGGCTGGAATTCTCGCAATGGCCAATGCGGGGCCAGATACC
AATGGCAGCCAGTTCTTTGTGACCCTCGCCCCCACCCAGTGGCTTGACGGCAAACACACCATTTTTGGCCGAGTG
TGTCAGGGCATAGGAATGGTGAATCGCGTGGGAATGGTAGAAACAAACTCCCAGGACCGCCCTGTGGACGACGTG
AAGATCATTAAGGCATACCCTTCTGGG**TAG**ACTTGCTACCCTCTTGAGCAGCTCTTCTGAGATGGCCCCAGTGAA
CCAGCTTCTAGATGACATAGAATGACATGTAATGCTAAATTTCATTTTGGCTTTGCAAGTCATGAAGCTTAGGAG
GCCTGGCATCTTGGGTGAGTTAGAGATGGAAGTACATTTTAATAGGATGCTTCTTTTCTCTTCCCCCAGTGCCTA
GGTTGCCAGAGCATTTGCACAAATGCCCCTGTTTATCAATAGGTGACTACTTACTACACATGAACCATAATGCTG
CTTCTTGTGCATGTCTGCTCTGATATACGTCGAACAATGTAGCAGCCACTGTCATTTCTCAGTGGTTTTGCCTAA
CCAAACTTCTTCCTAAGGAGATTTATATTCTGGCCTACACAGCAGTCCTTGATGGCTGACAGCCACAGAATTCCA
AACCAAGTAGTGTCTGTCAGCCCTCTTAACTCTGTGCACGCCCTATTTCAGTCTTTTACATTGTTCTTCTAGGG
AATGTATGCATCTCTATATATATTTTCCCTCTCAAAACCAGAACATCAACAGTGCTGTTTCTGACACTTCAGACA
TCCCACGCAAAGCCACATTGAATTTTTGCCAAATGAAAAACACATCCAACAATCAAGTTTCTAAGAAGGTGTCAA
GTGGGGAATAATAATAATGTATAATAATCAAGAAATTAGTTTATTAAAAGGAAGCAGAAGCATTGACCATTTTTT
CCCAGAGAAGAGGAGAAATCTGTAGTGAGCAAAGGACAGACCATGAATCCTCCTTGAGAAGTAGTACTCTCAGAA
AGGAGAAGCGCCACTCAAGTTCTTTTAACCCAAGACTTTAGAGAAATTAGGTCCAAGATTTTTATATGTTCAGTT
GTTTATGTATAAAAATAACTTTCTGGATTTTGTGGGGAGGAGCAGGAGAGGAAGGAAGTTAATACCTATGTAATA
CATAGAAACTTCCACAATAAAATGCCATTGATGGTTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1401

MAAIPPDSWQPPNVYLETSMGIIVLELYWKHAPKTCKNFAELARRGYYNGTKFHRIIKDFMIQGGDPTGTGRGGA
SIYGKQFEDELHPDLKFTGAGILAMANAGPDTNGSQFFVTLAPTQWLDGKHTIFGRVCQGIGMVNRVGMVETNSQ
DRPVDDVKIIKAYPSG

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FIGURE 1402

ACCACGCGTCTCATCC**ATG**GCTTCCGCGGACTCGCGCCGGGTGGCAGATGGCGGCGGTGCCGGGGGCACCTTCCA
GCCCTACCTAGACACCTTGCGGCAGGAGCTGCAGCAGACGGACCCAACGCTGTTGTCAGTAGTGGTGGCGGTTCT
TGCGGTGCTGCTGACGCTAGTCTTCTGGAAGTTAATCCGGAGCAGAAGGAGCAGTCAGAGAGCTGTTCTTCTTGT
TGGCCTTTGTGATTCCGGGAAAACGTTGCTCTTTGTCAGGTTGTTAACAGGCCTTTATAGAGACACTCAGACGTC
CATTACTGACAGCTGTGCTGTATACAGAGTCAACAATAACAGGGGCAATAGTCTGACCTTGATTGACCTTCCCGG
CCATGAGAGTTTGAGGCTTCAGTTCTTAGAGCGGTTTAAGTCTTCAGCCGGGGCTATTGTGTTTGTTGTGGATAG
TGCAGCATTCCAGCGAGAGGTGAAAGATGTGGCTGAGTTTCTGTATCAAGTCCTCATTGACAGTATGGGTCTGAA
GAATACACCATCATTCTTAATAGCCTGCAATAAGCAAGATATTGCAATGGCAAAATCAGCAAAGTTAATTCAACA
GCAGCTGGAGAAAGAACTCAACACCTTACGAGTTACCCGTTCTGCTGCCCCCAGCACACTGTACAGTTCCAGCAC
TGCCCCTGCTCAGCTGGGGAAGAAAGGCAAAGAGTTTGAATTCTCACAGTTGCCCCTCAAAGTGGAGTTCCTGGA
GTGCAGTGCCAAGGGTGGAAGAGGGGACGTGGGCTCTGCTGACATCCAGGACTTGGAGAAATGGCTGGCTAAAAT
TGCC**TGA**GAGGCAGCTCTAAAGCACAAGACCTGGATGTGTGACACACAGTTTTGGAAAAAGGTCTGTGGTAGTCT
GGAGTTGATGAGGAAGGGGTACAAGATGTGGTTAGAAACATTTCTTTGTTCTGGAAACAAAGTACTGTTGAAACC
AGCTTGGAATTTTTTTTTTTTTTTTTTTTAAGTTCAGTTCTCCCTTATGGCTGCCTTTCAAACAAGTACCTTTTA
TCTGATGCCTGTATCTTCCCTTTGTTAAGGTGTAACTTGATGTAGGGTCAAGGTTTTTGTGACAACAGGCAGACT
CCACACAGAGAGGATATGATGAGAATATGGCCATCACCTGAAAAGTTTTCTTATCTTCTGTGCTTTTGGTCCCTG
GAAACAAATCCGCCTATGTATGAAGCTAGTTGATTTCCAGTTGCACTATTTCCAGTTGCCTCTGAAGTTCACAGG
CAATACATTGTCTAGTCCTTTGCGAATTTCTCTGATTGTGGGCACAGTTATGAAGTTTCCCCACATGTGAAGAC
AGGTACAAAATAGCAGAGCCAAGCAGACAGTGGGTCTATTCTTCATTAGCTCAGTGACTTGTCCACACTCGTCTT
AGCACTTACGTTTCAAAAGCTTGTCACAAACCCTTGGAGTCATTCCCAGATAATAGAACTGGAAATGATAAATCC
CCTAATGCCAAGGGTCTAGTGTGTTCTTAGTGGTTATACTGGGAAGTGTGTGGAGATTTAGGTGCTGCTCTGCTG
CTCTGGATGGCTGAAGGCTCCTGGGCCATCTTCATGTGCTGCTTGAAGAGCTCCTATTTTGTACTCCTGGCTAGA
ATGCTGTGGAACAAATACAAAGTGAAAAAAGTTCTCTGTAGATTTCTGAAGTGCATATTCATTGATGCCAAGAAA
AAAAAAAGTTGCCTTTTG

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FIGURE 1403

MASADSRRVADGGGAGGTFQPYLDTLRQELQQTDPTLLSVVVAVLAVLLTLVFWKLIRSRRSSQRAVLLVGLCDS
GKTLLFVRLLTGLYRDTQTSITDSCAVYRVNNNRGNSLTLIDLPGHESLRLQFLERFKSSAGAIVFVVDSAAFQR
EVKDVAEFLYQVLIDSMGLKNTPSFLIACNKQDIAMAKSAKLIQQQLEKELNTLRVTRSAAPSTLYSSSTAPAQL
GKKGKEFEFSQLPLKVEFLECSAKGGRGDVGSADIQDLEKWLAKIA

FIGURE 1404

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CAGCTTCCCACCCTGGGCTTTCCGAGGTGCTTTCGCCGCTGTCCCCACCACTGCAGCCATGATCTCCTTAACGGA
CACGCAGAAAATTGGAATGGGATTAACAGGATTTGGAGTGTTTTTCCTGTTCTTTGGAATGATTCTCTTTTTTGA
CAAAGCACTACTGGCTATTGGAAATGTTTTATTTGTAGCCGGCTTGGCTTTTGTAATTGGTTTAGAAAGAACATT
CAGATTCTTCTTCCAAAAACATAAAATGAAAGCTACAGGTTTTTTTCTGGGTGGTGTATTTGTAGTCCTTATTGG
TTGGCCTTTGATAGGCATGATCTTCGAAATTTATGGATTTTTTCTCTTGTTCAGGGGCTTCTTTCCTGTCGTTGT
TGGCTTTATTAGAAGAGTGCCAGTCCTTGGATCCCTCCTAAATTTACCTGGAATTAGATCATTTGTAGATAAAGT
TGGAGAAAGCAACAATATGGTATAACAACAAGTGAATTTGAAGACTCATTTAAAATATTGTGTTATTTATAAAGT
CATTTGAAGAATATTCAGCACAAAATTAAATTACATGAAATAGCTTGTAATGTTCTTTACAGGAGTTTAAAACGT
ATAGCCTACAAAGTACCAGCAGCAAATTAGCAAAGAAGCAGTGAAAACAGGCTTCTACTCAAGTGAACTAAGAAG
AAGTCAGCAAGCAAACTGAGAGAGGTGAAATCCATGTTAATGATGCTTAAGAAACTCTTGAAGGCTATTTGTGTT
GTTTTTCCACAATGTGCGAAACTCAGCCATCCTTAGAGAACTGTGGTGCCTGTTTCTTTTCTTTTTATTTTGAAG
GCTCAGGAGCATCCATAGGCATTTGCTTTTTAGAAGTGTCCACTGCAATGGCAAAAATATTTCCAGTTGCACTGT
ATCTCTGGAAGTGATGCATGAATTCGATTGGATTGTGTCATTTTAAAGTATTAAAAACCAAGGAAACCCCAATTTT
GATGTATGGATTACTTTTTTTTGTAAACATGGTTAAAATAAAACTTTTGTGGTTCTTCTGAATCTTAATATTTCA
AAGCCAGGTGAAAATCTGAACTAGATATTCTTTGTTGGAATATGCAAAGGTCATTCTTTACTAACTTTTAGTTAC
TAAATTATAGCTAAGTTTTGTCAGCAGCATACTCCGGAAAGTCTCATACTTCTTGGGAGTCTGCCCTCCTAAGTA
TCTGTCTATATCATTCATTACGTGTAAGTATTTAACAAAAAAGCATTCTTGACCATGAATGAAGTAGTTTGTTTC
ATAGCTTGTCTCATTGAATAGTATTATTGAAGATACTAAATGATGCAAACCAAATGGATTTTTTCCATGTCATGA
TGTAATTTTTCTTTCTTCTTTCTTTTTTTTAAATTTTAGCAGTGGCTTATTATTTGTTTTTCATAAATTAAAAATA
ACTTTTGATAATGTTTACTTTAAGACATGTAACATGTTAAAAGGTTAAACTTATGGCTGTTTTTAAAGGGCTATT
CATTTAATCTGAGTTTTCCCTTATTTTCAGCTTTTTCCTAGCATATAATAGTCATTAAGCATGACATATCCTTCA
TATGATCACTCATCTTGAGTTAATTAGAAAATACCTGAGTTCACGTGCTAAAGTCATTTCACTGTAATAAACTGA
CTATGGTTTCTTAAGAACATGACACTAAAAAAAAAAAGTGGTTTTTTTCCACCGTTGCTGATTATTAGACAGTAGG
AAATAGCTGTTTTCTTTAGTTTTACAAGATGTGACAGCTTTAGTGGTAGATGTAGGGAAACATTTCAACAGCCAT
AGTACTATTTGTTTTACCACTGATTGCACTATTTGTGTTTTTTTAACAGTTGCAAAGCTTTTTAATGCATAAAAGT
ATAATTGAAATCTGTGGTATTTATTTACAAACATGTCTACAAAAATAGATTACAGCTTATTTTATTTTTAGTTAA
ATCTCTTAATACACAGAGAACTCCCAATCTTGCTCATCTAAATAAGGAAAGACTTGGTGTATAGTGTGATGGTTT
AGTCTTAAGGATTAAGACATTTTTGGTACTTGCATTTGACTTACGATGTATCTGTGAAAATGGGATGATATTGAC
AAATGGAGACTCCTACCTCAATAGTTAATGGAATAATAAGAGGCTACTGTTGTGTCTAATGTTCTTCAAAAAAGT
AATATCCTCACTTGGAGAGTGTCAAATACATACTTTGAGGATTGACTTTATATAAGGTGCCCTGTAGAACTCTGT
TACACATATTTTTGACCCATATTATTTACAATGTCTTGATAATTCTACCTTTTTAGAGCAAGAATAGTATCTGCT
AATGTAAGGGACATCTGTATTTAACTCCTTTGTAGACATGAATTTCTATCAAAATGTTCTTTGCACTGTAACAGA
GATTCCTTTTTTCAATAATCTTAATTCAAAAGCATTATTAGACTTGAAAGGGTTTGATAATCTCCCAGTCCTTAG
TAAAGATTGAGAGAGGCTGGAGCAGTTTTCAGTTTTAAATGAGTCTGCAGTTAATATCAAATGTGAGTTTGGGAC
TGCCTGGCAACATTTATATTTCTTATTCAGAACCCTTGATGAGACTATTTTTAAACATACTAGTCTGCTGATAGA
AAGCACTATACATCCTATTGTTTCTTTCTTTCCAAAATCAGCCTTCTGTCTGTAACAAAAATGTACTTTATAGAG
ATGGAGGAAAAGGTCTAATACTACATAGCCTTAAGTGTTTCTGTCATTGTTCAAGTGTATTTTCTGTAACAGAAA
CATATTTGGAATGTTTTTCTTTTCCCCTTATAAATTGTAATTCCTGAAATACTGCTGCTTTAAAAAGTCCCACTG
TCAGATTATATTATCTAACAATTGAATATTGTAAATATACTTGTCTTACCTCTCAATAAAAGGGTACTTTTCTAT
CAAAAAAAAAAAAAAAAAAAA
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FIGURE 1405

MISLTDTQKIGMGLTGFGVFFLFFGMILFFDKALLAIGNVLFVAGLAFVIGLERTFRFFFQKHKMKATGFFLGGV
FVVLIGWPLIGMIFEIYGFFLLFRGFFPVVVGFIRRVPVLGSLLNLPGIRSFVDKVGESNNMV

FIGURE 1406

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AAAAAACCAGGAAGTGAAGTCCCCGAGCACGTTAGAAAGCCTGACATGGCCTGACTCGGGACAGCTCAGAGCAGG
GCAGAACTGGGGACACTCTGGGCCGGCCTTCTGCCTGCATGGACGCTCTGAAGCCACCCTGTCTCTGGAGGAACC
ACGAGCGAGGGAAGAAGGACAGGGACTCGTGTGGCAGGAAGAACTCAGAGCCGGGAAGCCCCCATTCACTAGAAG
CACTGAGAGATGCGGCCCCCTCGCAGGGTCTGAATTTCCTGCTGCTGTTCACAAAGATGCTTTTTATCTTTAACT
TTTTGTTTTCCCCACTTCCGACCCCGGCGTTGATCTGCATCCTGACATTTGGAGCTGCCATCTTCTTGTGGCTGA
TCACCAGACCTCAACCCGTCTTACCTCTTCTTGACCTGAACAATCAGTCTGTGGGAATTGAGGGAGGAGCACGGA
AGGGGGTTTCCCAGAAGAACAATGACCTAACAAGTTGCTGCTTCTCAGATGCCAAGACTATGTATGAGGTTTTCC
AAAGAGGACTCGCTGTGTCTGACAATGGGCCCTGCTTGGGATATAGAAAACCAAACCAGCCCTACAGATGGCTAT
CTTACAAACAGGTGTCTGATAGAGCAGAGTACCTGGGTTCCTGTCTCTTGCATAAAGGTTATAAATCATCACCAG
ACCAGTTTGTCGGCATCTTTGCTCAGAATAGGCCAGAGTGGATCATCTCCGAATTGGCTTGTTACACGTACTCTA
TGGTAGCTGTACCTCTGTATGACACCTTGGGACCAGAAGCCATCGTACATATTGTCAACAAGGCTGATATCGCCA
TGGTGATCTGTGACACACCCCAAAAGGCATTGGTGCTGATAGGGAATGTAGAGAAAGGCTTCACCCCGAGCCTGA
AGGTGATCATCCTTATGGACCCCTTTGATGATGACCTGAAGCAAAGAGGGGAGAAGAGTGGAATTGAGATCTTAT
CCCTATATGATGCTGAGAACCTAGGCAAAGAGCACTTCAGAAAACCTGTGCCTCCTAGCCCAGAAGACCTGAGCG
TCATCTGCTTCACCAGTGGGACCACAGGTGACCCCAAAGGAGCCATGATAACCCATCAAAATATTGTTTCAAATG
CTGCTGCCTTTCTCAAATGTGTGGAGCATGCTTATGAGCCCACTCCTGATGATGTGGCCATATCCTACCTCCCTC
TGGCTCATATGTTTGAGAGGATTGTACAGGCTGTTGTGTACAGCTGTGGAGCCAGAGTTGGATTCTTCCAAGGGG
ATATTCGGTTGCTGGCTGACGACATGAAGACTTTGAAGCCCACATTGTTTCCCGCGGTGCCTCGACTCCTTAACA
GGATCTACGATAAGGTACAAAATGAGGCCAAGACACCCTTGAAGAAGTTCTTGTTGAAGCTGGCTGTTTCCAGTA
AATTCAAAGAGCTTCAAAAGGGTATCATCAGGCATGATAGTTTCTGGGACAAGCTCATCTTTGCAAAGATCCAGG
ACAGCCTGGGCGGAAGGGTTCGTGTAATTGTCACTGGAGCTGCCCCCATGTCCACTTCAGTCATGACATTCTTCC
GGGCAGCAATGGGATGTCAGGTGTATGAAGCTTATGGTCAAACAGAATGCACAGGTGGCTGTACATTTACATTAC
CTGGGGACTGGACATCAGGTCACGTTGGGGTGCCCCTGGCTTGCAATTACGTGAAGCTGGAAGATGTGGCTGACA
TGAACTACTTTACAGTGAATAATGAAGGAGAGGTCTGCATCAAGGGTACAAACGTGTTCAAAGGATACCTGAAGG
ACCCTGAGAAGACACAGGAAGCCCTGGACAGTGATGGCTGGCTTCACACAGGAGACATTGGTCGCTGGCTCCCGA
ATGGAACTCTGAAGATCATCGACCGTAAAAAGAACATTTTCAAGCTGGCCCAAGGAGAATACATTGCACCAGAGA
AGATAGAAAATATCTACAACAGGAGTCAACCAGTGTTACAAATTTTTGTACACGGGGAGAGCTTACGGTCATCCT
TAGTAGGAGTGGTGGTTCCTGACACAGATGTACTTCCCTCATTTGCAGCCAAGCTTGGGGTGAAGGGCTCCTTTG
AGGAACTGTGCCAAAACCAAGTTGTAAGGGAAGCCATTTTAGAAGACTTGCAGAAAATTGGGAAAGAAAGTGGCC
TTAAAACTTTTGAACAGGTCAAAGCCATTTTTCTTCATCCAGAGCCATTTTCCATTGAAAATGGGCTCTTGACAC
CAACATTGAAAGCAAAGCGAGGAGAGCTTTCCAAATACTTTCGGACCCAAATTGACAGCCTGTATGAGCACATCC
AGGATTAGGATAAGGTACTTAAGTACCTGCCGGCCCACTGTGCACTGCTTGTGAGAAAATGGATTAAAAACTATT
CTTACATTTGTTTTGCCTTTCCTCCTATTTTTTTTTAACCTGTTAAACTCTAAAGCCATAGCTTTTGTTTTATAT
TGAGACATATAATGTGTAAACTTAGTTCCCAAATAAATCAATCCTGTCTTTCCCATCTTCGATGTTGCTAATATT
AAGGCTTCAGGGCTACTTTTATCAACATGCCTGTCTTCAAGATCCCAGTTTATGTTCTGTGTCCTTCCTCATGAT
TTCCAACCTTAATACTATTAGTAACCACAAGTTCAAGGGTCAAAGGGACCCTCTGTGCCTTCTTCTTTGTTTTGT
GATAAACATAACTTGCCAACAGTCTCTATGCTTATTTACATCTTCTACTGTCAAACTAAGAGATTTTTAAATTCT
GAAAAACTGCTTACAATTCATGTTTTCTAGCCACTCCACAAACCACTAAAATTTTAGTTTTAGCCTATCACTCAT
GTCAATCATATCTATGAGACAAATGTCTCCGATGCTCTTCTGCGTAATTAAATTGTGTACTGAAGGGAAAAGTTT
GATCATACCAAACATTTCCTAAACTCTCTAGTTAGATATCTGACTTGGGAGTATAAAAATTGGTCTATGACATAT
TGTCCAAAAGGAATGCTGTTCTTAAAGCATTATTTACAGAAGGAACTGGGGAGTAAATCTGTCCCTACAGTTTGC
TGCTGAGCTGGAAGCTGTGGGGGAAGGAGTTGACAGGTGGGCCCAGTGAACTTTTCCAGTAAATGAAGCAAGCAC
TGAATAAAAACCTCCTGAACTGGGAACAAAGATCTACAGGCAAGCAAGATGCCCACACAACAGGCTTATTTTCTG
TGAAGGAACCAACTGATCTCCCCCACCCTTGGATTAGAGTTCCTGCTCTACCTTACCCACAGATAACACATGCTG
TTTCTACTTGTAAATGTAAAGTCTTTAAAATAAACTATTACAGATACTTAAAAAAAAAAAAAAAA
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FIGURE 1407

MLFIFNFLFSPLPTPALICILTFGAAIFLWLITRPQPVLPLLDLNNQSVGIEGGARKGVSQKNNDLTSCCFSDAK
TMYEVFQRGLAVSDNGPCLGYRKPNQPYRWLSYKQVSDRAEYLGSCLLHKGYKSSPDQFVGIFAQNRPEWIISEL
ACYTYSMVAVPLYDTLGPEAIVHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVIILMDPFDDDLKQRGEK
SGIEILSLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIVSNAAAFLKCVEHAYEPTPDDV
AISYLPLAHMFERIVQAVVYSCGARVGFFQGDIRLLADDMKTLKPTLFPAVPRLLNRIYDKVQNEAKTPLKKFLL
KLAVSSKFKELQKGIIRHDSFWDKLIFAKIQDSLGGRVRVIVTGAAPMSTSVMTFFRAAMGCQVYEAYGQTECTG
GCTFTLPGDWTSGHVGVPLACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGYLKDPEKTQEALDSDGWLHTGD
IGRWLPNGTLKIIDRKKNIFKLAQGEYIAPEKIENIYNRSQPVLQIFVHGESLRSSLVGVVVPDTDVLPSFAAKL
GVKGSFEELCQNQVVREAILEDLQKIGKESGLKTFEQVKAIFLHPEPFSIENGLLTPTLKAKRGELSKYFRTQID
SLYEHIQD

FIGURE 1408

GCGGCAATC**ATG**GCGCCACCTGTGAGATACTGCATCCCCGGCGAACGTCTGTGTAACTTGGAGGAGGGCAGCCCG
GGCAGCGGCACCTACACCCGCCACGGCTACATCTTTTCGTCGCTTGCCGGCTGTCTGATGAAGAGCAGCGAGAAT
GGCGCGCTTCCAGTGGTGTCTGTAGTGAGAGAAACAGAGTCCCAGTTACTGCCAGATGTGGGAGCTATTGTAACC
TGTAAGGTCTCTAGCATCAATTCACGCTTTGCCAAAGTACACATCCTGTATGTGGGGTCCATGCCTCTTAAGAAC
TCTTTTCGAGGAACTATCCGCAAGGAAGATGTCCGAGCAACTGAAAAAGACAAGGTTGAAATTTATAAGAGTTTC
CGCCCAGGTGACATTGTCTTGGCCAAAGTGATCTCCTTAGGTGATGCACAGTCCAACTACCTGCTAACCACCGCC
GAGAACGAGCTGGGAGTGGTGGTAGCCCACAGTGAGTCAGGTATCCAGATGGTTCCCATCAGCTGGTGTGAGATG
CAGTGCCCTAAGACCCACACTAAAGAATTCCGGAAAGTAGCCCGAGTACAACCCGAATTCTTGCAGACC**TAA**GAA
GCCACTTTTTACCCTATGGAAGGGGGTAAGCTGTTCCTGAGTATAACACCAAGATGCTGCTGTCTTTATTCAAAC
ACCTGGCGTCGGCCAACAGCCACTTCCAGAAAAATCTTCCAGTTTACGCTGTAGATGGAACATGTTTCTGTGAAC
CTATCAGTGGATTTCATTCTCTTGAGTAATAAATCTTATCTTTTCAAGGCACCAACAAACAAAACTGTGATATTG
GAAATAGCCTATCCCTCCTGACAGTCCTTATAAATACATATTTTTTGCTATGATAAAACTTTTTTACTAAAAGGA
TGTTATAGAGTCTGTTGTCTTAAGCAGAGAAAGACATCTAAATGGTGTCAGGACATTTCAGTACTTCTGCTTATT
GAGTACTTACTGTGCTAGGCACTGAGTCAGGTGCTTTACATACGTCCCCTTCATTTAGGTACATTGTGATTTAAT
GAAAATTTGAGGACACGTGGTGATACAGATAGCATGTGAGGCAGGCATGGTGGCTCATGTTTGTAAATCCCAGCA
CTTTGGGAAGGCCGAGTTGGTTTTGAACTCCTGGCCTCCCAAGGTGCTGATAGTACAGGCATGAACCACTGTGCT
TGGCCTTTTAAAATTTTGTAGAGATGCAGTCTTACTATGTTGCCCAGGCTGTCTCAAACTCCTGGCCTCAAGTGG
TCCTCCTGCCTTGGCCTCCCAAAATGTTGCAATTACAGGCATGAGCACTGTGCTTGGCAAGCTAAGGAGGATTTT
CACTAGCAGTTTCATTTGACAATACCAATCTAGAGGTGAGCTTCTCAATCTTTAATGTGTATCCAAATCACCTGG
GGAATAGATGCCGATTCTGAAACAGGTCTGGAGTGAGACCTGAGGTTCTGCATGTATAACAAGCTCCCAGGGGGT
CCAGCTGTCA

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FIGURE 1409

MAPPVRYCIPGERLCNLEEGSPGSGTYTRHGYIFSSLAGCLMKSSENGALPVVSVVRETESQLLPDVGAIVTCKV
SSINSRFAKVHILYVGSMPLKNSFRGTIRKEDVRATEKDKVEIYKSFRPGDIVLAKVISLGDAQSNYLLTTAENE
LGVVVAHSESGIQMVPISWCEMQCPKTHTKEFRKVARVQPEFLQT

FIGURE 1410

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GCACGAGCCCCGGGCTGCCGGCGCGGGCGCCGCGGCACGTCCACAGGCTGGGTCGCGAGGTGGCGATCGCTGAGA
GGCAGGAGGGCCGAGGCGGGCCTGGGAGGCGGCCCGGAGGTGGGGCGCCGCTGGGGCCGGCCCGCACGGGCTTCA
TCTGAGGGCGCACGGCCCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGCCGGAGCTGC
AATGGGCCGCGGCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGA
GCAGCCCCCGGAGACAGCGGCACAGAGGTGCTTCTGCCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGT
TGAAACCATTGATAGATTTAATAACTACAGGCTTTTCCCAAGACTACAAAAACTTCTTGAAAGTGACTACTTTAG
GTATTACAAGGTAAACCTGAAGAGGCCGTGTCCTTTCTGGAATGACATCAGCCAGTGTGGAAGAAGGGACTGTGC
TGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAAATCTGCGAGCTACAAGTATTCTGAAGAAGCCAA
TAATCTCATTGAAGAATGTGAACAAGCTGAACGACTTGGAGCAGTGGATGAATCTCTGAGTGAGGAAACACAGAA
GGCTGTTCTTCAGTGGACCAAGCATGATGATTCTTCAGATAACTTCTGTGAAGCTGATGACATTCAGTCCCCTGA
AGCTGAATATGTAGATTTGCTTCTTAATCCTGAGCGCTACACTGGTTACAAGGGACCAGATGCTTGGAAAATATG
GAATGTCATCTACGAAGAAAACTGTTTTAAGCCACAGACAATTAAAAGACCTTTAAATCCTTTGGCTTCTGGTCA
AGGGACAAGTGAAGAGAACACTTTTTACAGTTGGCTAGAAGGTCTCTGTGTAGAAAAAAGAGCATTCTACAGACT
TATATCTGGCCTACATGCAAGCATTAATGTGCATTTGAGTGCAAGATATCTTTTACAAGAGACCTGGTTAGAAAA
GAAATGGGGACACAACATTACAGAATTTCAACAGCGATTTGATGGAATTTTGACTGAAGGAGAAGGTCCAAGAAG
GCTTAAGAACTTGTATTTTCTCTACTTAATAGAACTAAGGGCTTTATCCAAAGTGTTACCATTCTTCGAGCGCCC
AGATTTTCAACTCTTTACTGGAAATAAAATTCAGGATGAGGAAAACAAAATGTTACTTCTGGAAATACTTCATGA
AATCAAGTCATTTCCTTTGCATTTTGATGAGAATTCATTTTTTGCTGGGGATAAAAAAGAAGCACACAAACTAAA
GGAGGACTTTCGACTGCATTTTAGAAATATTTCAAGAATTATGGATTGTGTTGGTTGTTTTAAATGTCGTCTGTG
GGGAAAGCTTCAGACTCAGGGTTTGGGCACTGCTCTGAAGATCTTATTTTCTGAGAAATTGATAGCAAATATGCC
AGAAAGTGGACCTAGTTATGAATTCCATCTAACCAGACAAGAAATAGTATCATTATTCAACGCATTGGAAGAAT
TTCTACAAGTGTGAAAGAATTAGAAAACTTCAGGAACTTGTTACAGAATATTCATTAAAGAAAACAAGCTGATAT
GTGCCTGTTTCTGGACAATGGAGGCGAAAGAGTGGAATTTCATTCAAAGGCATAATAGCAATGACAGTCTTAAGC
CAAACATTTTATATAAAGTTGCTTTTGTAAAGGAGAATTATATTGTTTAAGTAAACACATTTTTAAAAATTGTG
TTAAGTCTATGTATAATACTACTGTGAGTAAAAGTAATACTTTAATAATGTGGTACAAATTTTAAAGTTTAATAT
TGAATAAAAGGAGGATTATCAAATTCATATATGATAAAAGTGAATGTTCTAAGTCTCTCAAACTAGCGTTTTATG
TAATAATATGTAATATAAATAAAACTATGGTAAATGTGACAAGCATTTAATAGGAAAATGCTAAGGAGGCCTCAT
AAATGACCCATAATTACCAACGTAGAATTTTTCAGTACATTTAGGGTTGCTGGATTTAGCAAATAAAAATAAAGA
TTGCCCAGTTAGATTTGAATTTCAGATAAACAATTAGTTTTTTAATATTTTACATGGAATATTTGGAAAATACTT
ATACTAAAAAATTATTTGTTTGAAATTCACATTTAACTGGGAGTCTTGTATTTTATCTGGCAATCCTAAAATACA
TTGGTATGAAACAAATCACTTTTAGAAGTATATTGCTATTTTGATTGGGTTGTTTTTGTGTGTAGAAACGTACAA
TAACAACTCAAAGGCACAGGAGATTTCTAAACATTGTGAAAAGTTGAATAGATTATATATTTATTCTCATAATAC
TTTCACTAATACTAAATAAAATTTGGGGAACACTTTTTATTTTTATATAATTTCCAATTTACAGAAAAGTTTCAA
AAATAGTACAAAGAGCTCTCTTACCCAGATTCACTAATTGTTCATACGTGCTTTATCTTTCATGCTTTCTCTGTA
CACACACACACACACACAAATTTTTCCTCAATCATTTGAAAGTCAGTTATAGGCATCATGCCCCTTAAACCCTAA
ATACTTCAGTGTGTAATACTGAATAATTACTAAAAATGATTTTCTCAGAAAAAAAACTCCCACAATTCTGGAAC
TATAATACTGTAAGCCTTAGAATAAATAATACTTTCAAGTTCCAATCTAAAGTTCTTTTTGAGTTTTGTTGCCCG
TTTTATGCTTGATGTGTATAGTAATAGGGTAGGCTATTTATTTTATTAAAATTTTTTTTAGAGACAAGGTTTTGC
TGTGTTGCCCAAGCTGGAACTTGAACGACTGGGCTGAAGTGATCTTCCCACCTCAGCCTCCCAAGTAGCTGGGAA
TACAGGTGTCTGCCACCATACCCAGTTTCATTTTTGTTTTTTATACCCGAAGTTCATTTCCTTTGTCTCCCTAAA
ACTGAACTGTAATTTTGGGAGGTTTTCATTAGTGGAAGCTCTTCATTTATAAAGCTATTTGAAGGGGTTTAGGAA
TTTATATCACATGGTAATTGTAGAGAAAAAGAAGCTATATACCTCAAAATCGTGCCCTCTTTACATATGTCTTAT
CAGGTATAACATGTTGAAATGTCACATTAGTAGTAAAGTGGGGTTTATTTATATAGTGGTTAAGAAATGTCAGTT
TACACTGCTGTATACTTCTTCTTCTGTGTCCCTAAGGCCTGGTACAGTGCCAAGCACATACTTGGTATCCAATAA
ATATTTGTTGGATGAAAAAAAAAAAAAAAAAAAA
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FIGURE 1411

MGRGWGFLFGLLGAVWLLSSGHGEEQPPETAAQRCFCQVSGYLDDCTCDVETIDRFNNYRLFPRLQKLLESDYFR
YYKVNLKRPCPFWNDISQCGRRDCAVKPCQSDEVPDGIKSASYKYSEEANNLIEECEQAERLGAVDESLSEETQK
AVLQWTKHDDSSDNFCEADDIQSPEAEYVDLLLNPERYTGYKGPDAWKIWNVIYEENCFKPQTIKRPLNPLASGQ
GTSEENTFYSWLEGLCVEKRAFYRLISGLHASINVHLSARYLLQETWLEKKWGHNITEFQQRFDGILTEGEGPRR
LKNLYFLYLIELRALSKVLPFFERPDFQLFTGNKIQDEENKMLLLEILHEIKSFPLHFDENSFFAGDKKEAHKLK
EDFRLHFRNISRIMDCVGCFKCRLWGKLQTQGLGTALKILFSEKLIANMPESGPSYEFHLTRQEIVSLFNAFGRI
STSVKELENFRNLLQNIH

FIGURE 1412

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CTGTTCCAAACCACGTGGACGCGTCTGGGCTGCTGGAGGCAGCCCGAGCCGCCGCCGTCGGTGTCGCCGCCACCA
CCACCATCGGAGTCACGAGTCCCGCGTCTGTCCGAAGTCGCCGCTCTCGGGCTGCTCACGTCTCTTCGGAGAGCG
CGCACATGGCGACTCAGGCGTACTCCCTCAGCTACGCAGGGTGCAACTTCTTGCGCCAACGTCTGGTCCTGTCTA
CCCTGAGCGGGCGCCCCGTCAAAATCCGAAAGATTCGGGCCAGAGACGACAACCCGGGCCTCCGAGATTTTGAAG
CCAGCTTCATAAGGCTATTGGACAAAATAACGAATGGTTCTCGAATTGAAATAAACCAAACAGGAACAACCTTAT
ATTATCAGCCTGGCCTCCTGTATGGTGGATCTGTGGAACATGACTGTAGCGTCCTTCGTGGCATTGGGTATTACC
TGGAGAGTCTTCTTTGCTTGGCTCCATTTATGAAGCACCCGTTAAAAATAGTTCTACGAGGAGTGACCAATGATC
AGGTTGACCCTTCAGTTGATGTTCTTAAGGCAACAGCACTCCCTTTGTTGAAACAATTTGGGATTGATGGTGAAT
CATTTGAACTGAATATTGTGCGACGGGGAATGCCTCCCGGAGGAGGAGGCGAAGTGGTTTTCTCATGTCCTGTGA
GGAAGGTCTTGAAGCCCATTCAACTCACAGATCCAGGAAAAATCAAACGTATTAGAGGAATGGCGTACTCTGTAC
GTGTGTCACCTCAGATGGCGAACCGGATTGTGGATTCTGCGAGGAGCATCCTCAACAAGTTCATACCTGATATCT.
ATATTTACACAGATCACATGAAAGGAGTCAACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGA
CCACCAGTGGCACCTTCCTCAGTGCTGAACTGGCCTCCAACCCCCAGGGCCAGGGAGCAGCAGTACTTCCAGAGG
ACCTTGGCAGGAACTGTGCCCGGCTGCTGCTGGAGGAAATCTACAGGGGTGGATGCGTAGACTCGACCAACCAAA
GCCTGGCGCTACTACTCATGACCCTTGGACAGCAGGATGTTTCCAAAGTCCTGCTAGGCCCTCTCTCTCCCTACA
CGATAGAATTTTTGCGGCATTTGAAGAGCTTTTTCCAGATTATGTTTAAAATTGAAACCAAGCCATGTGGTGAAG
AACTCAAGGGTGGGGATAAAGTGCTGATGACCTGTGTTGGCATTGGTTTCTCCAACCTTAGCAAGACCCTCAAGT
GATAACCATCACAAGATAAGGCCCCAGTGCCTACAGACAAAGCAGAAGCTGCCACGGACACCAATGGGACCAAGT
CCAAATGGATTAATCCAGGACAGAATAGCCACTTGCTTAATTTTCTGTGAAGAAATATCAATATACAAATAAAAG
ACATCCCTGTAGCATATGGTTTCCAGCTGTTTCTCCAGTGGCATTGCCATTGCCCAGGAGGGGCCCAGTCACCAT
GAGAGCTCCCTTGCCTTACCTGGAGGAAGAATGTGCCTTCAGGCCACAGTCGTGCTGCTAGAACAGTCTCATAGC
TGCAGTTCAGCTGTGCTTCCTCAGCCTACTATCATAGGCTTCCTCAGCCCTCTGTCATATGGCTGTTTTGCAAAC
CTGTGGAGTCTGTTACTGTTCTTTCTGCAAGGACTCACCTCCTTGAGCCTTGGTTTTTGTTGTAGGGATTAAATG
AGATAATATGAGTGGCAGCTCTTCATGAGTCCTGCAGTGCTAAGCAAATGTCAGAAATTGGTGTATTAGACTATT
TATCTTTGATCTTCTGAATGGATTGCTGTCATGGACACGGACACGGATCTTCATCTGGTTCATTGTATTTATATG
TGAGGGATGGATGGCTGCGGGGCTCCAAGTAAGTTATTGGGATGTTTTTTATATTCCAGGTGTGCTGTACATTCT
TATTTTATTTTCACAACAGCTCTGTGATGTAAATGCTATCTCCATGAGAAAATTCATAAAGGGTGTTTTGTTCCT
TTGAAATGTATAATGTAAAGACATTAAATCTCCTCATTT
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FIGURE 1413

MATQAYSLSYAGCNFLRQRLVLSTLSGRPVKIRKIRARDDNPGLRDFEASFIRLLDKITNGSRIEINQTGTTLYY
QPGLLYGGSVEHDCSVLRGIGYYLESLLCLAPFMKHPLKIVLRGVTNDQVDPSVDVLKATALPLLKQFGIDGESF
ELNIVRRGMPPGGGGEVVFSCPVRKVLKPIQLTDPGKIKRIRGMAYSVRVSPQMANRIVDSARSILNKFIPDIYI
YTDHMKGVNSGKSPGFGLSLVAETTSGTFLSAELASNPQGQGAAVLPEDLGRNCARLLLEEIYRGGCVDSTNQSL
ALLLMTLGQQDVSKVLLGPLSPYTIEFLRHLKSFFQIMFKIETKPCGEELKGGDKVLMTCVGIGFSNLSKTLK

FIGURE 1414

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CTACAGATACTGCCGTGTGAGAGTACCTGAGGGGCTCCTGAAAGACCTACTGCCAGGACCAGTGACCCTGGTGAT
GGAACGCTCGGAGGAGCTCAACAAGGACCTAAACCCTTTTACGCCTCTTGTAGGCATTCGGATTCCTGATCATGC
TTTTATGCAAGACTTGGCTCAGATGTTTGAGGGTCCGCTTGCTCTCACTAGTGCCAACCTCAGCTCCCAGGCCAG
TTCTCTGAATGTCGAGGAGTTCCAGGATCTCTGGCCTCAGTTGTCCTTGGTTATTGATGGGGGACAAATTGGGGA
TGGCCAGAGCCCCGAGTGTCGCCTTGGCTCAACTGTGGTTGATTTGTCTGTGCCCGGAAAGTTTGGCATCATTCG
TCCAGGCTGTGCCCTGGAAAGTACTACAGCCATCCTCCAACAGAAGTACGGACTGCTCCCCTCACATGCGTCCTA
CCTGTGAAACTCTGGGAAGCAGGAAGGCCCAAGACCTGGTGCTGGATACTATGTGTCTGTCCACTGACGACTGTC
AAGGCCTCATTTGCAGAGGCCACCGGAGCTAGGGCACTAGCCTGACTTTTAAGGCAGTGTGTCTTTCTGAGCACT
GTAGACCAAGCCCTTGGAGCTGCTGGTTTAGCCTTGCACCTGGGGAAAGGATGTATTTATTTGTATTTTCATATA
TCAGCCAAAAGCTGAATGGAAAAGTTAAGAACATTCCTAGGTGGCCTTATTCTAATAAGTTTCTTCTGTCTGTTT
TGTTTTTCAATTGAAAAGTAATTAAATAACAGATTTAGAATCTAGTGAGAGCCTCCTCTCTGGTGGGTGGTGGCA
TTTAAGGTTCAAACCAGCCAGAAGTGCTGGTGCTGTTTAAAAAGTCTCAGGTGGCTGCGTGTGGTGGCTCATGCC
TGTAATCCCAACATTCTGGGAGGCCCAGGCGGGAGAACTGCTTGAGCCCAGGAGTTCAGAATCAGCCTGGGCAAC
ATAGCAATACTCCGTCTCATAAAAAATTAATAAATAAAAAGTCTCAGGTGACCAAAGGCTCCTGAAGCTAGAACCA
GGTTTGGATAAAGATTGAAGAGCCACAGGCCACTCTTCCCTCTGAGCCATTGGGCCTAGTGGTGTCATGTATTGT
AATTGCTCGCAGGGAGAGCAGTCTTTTTGGTGTAATAGTGGGATGTCTGCTTAGTTGGCAGGGGTTCAGTCCAAA
TGGAAGAATATTGGGAAATAAACCTCCACTATCCTTTATAGCCAGGGACTTTTTTCTTATTTATTCATAAAATAA
ATTATAGTTAATTATACCCATAACACCTTTATTTAAATCCAGTGTTCTCCGCAGCCTTTTGTCTATTTATATGTG
TACCAAGTGTTAAACATAATTATTATTGGGCATTTGAACTTTGTTTTTCTTTAAAGAAATGCTGCTATTAAACAT
ATTTGTAAATGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1415

MERSEELNKDLNPFTPLVGIRIPDHAFMQDLAQMFEGPLALTSANLSSQASSLNVEEFQDLWPQLSLVIDGGQIG
DGQSPECRLGSTVVDLSVPGKFGIIRPGCALESTTAILQQKYGLLPSHASYL

FIGURE 1416

CAGATAGGCGACACGCGGCGGGCGCTGAGGCGGGA**ATG**GCTGCTGTACTGCAGCGCGTCGAGCGGCTGTCCAATC
GAGTCGTGCGTGTGTTGGGCTGTAACCCGGGTCCCATGACCCTCCAAGGCACCAACACCTACCTAGTGGGGACCG
GCCCCAGGAGAATCCTCATTGACACTGGAGAACCAGCAATTCCAGAATACATCAGCTGTTTAAAGCAGGCTCTAA
CTGAATTTAACACAGCAATCCAGGAAATTGTAGTGACTCACTGGCACCGAGATCATTCTGGAGGCATAGGAGATA
TTTGTAAAAGCATCAATAATGACACTACCTATTGCATTAAAAAACTCCCACGGAATCCTCAGAGAGAAGAAATTA
TAGGAAATGGAGAGCAACAATATGTTTATCTGAAAGATGGAGATGTGATTAAGACTGAGGGAGCCACTCTAAGAG
TTCTATATACCCCTGGCCACACTGATGATCACATGGCTCTACTCTTAGAAGAGGAAAATGCTATCTTTTCTGGAG
ATTGCATCCTAGGGGAAGGAACAACGGTATTTGAAGACCTCTATGATTATATGAACTCTTTAAAAGAGTTATTGA
AAATCAAAGCTGATATTATATATCCAGGACATGGCCCAGTAATTCATAATGCTGAAGCTAAAATTCAACAATACA
TTTCTCACAGAAATATTCGAGAGCAGCAAATTCTTACATTATTTCGTGAGAACTTTGAGAAATCATTTACAGTAA
TGGAGCTTGTAAAAATTATTTACAAGAATACTCCTGAGAATTTACATGAAATGGCTAAACATAATCTCTTACTTC
ATTTGAAAAAACTAGAAAAGAAGGAAAAATATTTAGCAACACAGATCCTGACAAGAAATGGAAAGCTCATCTT**T**
AGTTTCAGATTAAAGAAAGCTTTGTTTTATTTTGCTTTGAGAGAATGGTATGTTTTCTTAACTATAGGTTATTTT
ATAGAGAATATAAAAGTATAAAACATTAAAAATAACCCTAGATATACTTTAAAATAATGTTATATTTATGCTAAA
ATATGTAAATTACACTATACAACCATATGATAGGTTATTTCTCTAACCTTGTCTTCTAACGTTTTACCAAAAATT
CATAATCTAATAGTTTATCAGTTTTCAATAGATTAAATAAAATGATTACTTTAAAAATAATAAAATTTATCTAAT
TTAAAGTTGATATTATTTTTGGCCGTTAGTTATCTATTACTAGTGATCAGTTATACTGTTTTCTATAGCTACTTT
ATTTAACAGCACAGATTTCTATGCACCTTTACTCTTTCCTCAACCCTTGTCTCTATCTGTACATAATTGCTTTGT
CTTGATGTTTCTATCAACTATATCATGACTATCTATTGGTTCCATAACTCTGTATCATGTGTATTTTCTTATTCT
GGTATACCACAAATGATTCATGCAAATGAATTTTTGGTGATTGAAAAATATTAAATTCCCAATTTAAAGTATTAT
ATGATA

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FIGURE 1417

MAAVLQRVERLSNRVVRVLGCNPGPMTLQGTNTYLVGTGPRRILIDTGEPAIPEYISCLKQALTEFNTAIQEIVV
THWHRDHSGGIGDICKSINNDTTYCIKKLPRNPQREEIIGNGEQQYVYLKDGDVIKTEGATLRVLYTPGHTDDHM
ALLLEEENAIFSGDCILGEGTTVFEDLYDYMNSLKELLKIKADIIYPGHGPVIHNAEAKIQQYISHRNIREQQIL
TLFRENFEKSFTVMELVKIIYKNTPENLHEMAKHNLLLHLKKLEKEGKIFSNTDPDKKWKAHL

FIGURE 1418

GTGAGGCTGGCGGTGGCGACAACCGAGGAGGAGGGGCGGGACGCCGTGGAGCACGGCGACCGGCTGAGCGTC**ATG**

GAGGGCTCAGGGGAGCAGCCGGGCCCACAACCACAGCATCCCGGAGACCACCGCATCCGCGACGGCGACTTCGTG
GTGCTGAAACGTGAAGATGTGTTTAAAGCAGTACAAGTCCAGCGGAGAAAAAAAGTAACTTTCGAAAAACAGTGG
TTCTACCTGGATAACGTCATTGGCCATAGTTATGGAACTGCATTTGAAGTGACCAGTGGAGGAAGTCTACAGCCC
AAGAAGAAGAGGGAAGAGCCTACTGCAGAGACTAAAGAAGCGGGCACTGATAATCGAAATATAGTTGATGATGGG
AAATCTCAGAAACTTACTCAAGATGACATAAAAGCTTTGAAGGACAAGGGCATTAAAGGAGAGGAAATAGTTCAG
CAGTTAATTGAAAATAGTACAACATTCCGAGACAAGACAGAATTTGCCCAAGATAAATATATTAAAAAGAAGAAA
AAAAAATATGAAGCCATCATTACTGTTGTGAAGCCATCCACCCGTATTCTTTCAATTATGTATTATGCAAGAGAA
CCTGGAAAAATTAACCACATGAGATACGATACACTAGCCCAGATGTTGACGTTGGGAAATATCCGTGCTGGCAAC
AAAATGATTGTGATGGAAACGTGTGCAGGCTTGGTGCTGGGTGCAATGATGGAACGAATGGGAGGTTTTGGCTCC
ATTATTCAGCTATACCCTGGAGGAGGACCTGTTCGGGCAGCAACAGCATGTTTTGGATTTCCCAAATCTTTTCTC
AGTGGTCTTTATGAATTCCCTCTCAACAAAGTGGACAGTCTTCTACATGGAACATTTTCTGCCAAGATGTTATCT
TCAGAGCCAAAAGACAGTGCTTTGGTTGAAGAAAGTAATGGCACACTGGAGGAAAAACAGGCTTCTGAACAAGAG
AATGAAGACAGCATGGCAGAGGCCCCAGAGAGCAACCACCCAGAAGACCAGGAAACAATGGAAACAATTTCTCAA
GATCCAGAACATAAGGGGCCTAAAGAGAGAGGAAGCAAAAAAGATTATATTCAGGAAAAACAGAGGAGACAAGAA
GAGCAGAGGAAAAGACATTTAGAGGCTGCCGCTCTGCTGAGTGAAAGAAACGCAGATGGTTTAATTGTAGCTAGT
CGTTTCCACCCCACTCCCCTGCTGCTGTCTTTGCTGGACTTTGTGGCCCCTTCAAGGCCGTTTGTGGTCTACTGT
CAGTACAAAGAGCCTCTGTTGGAATGCTACACAAAACTGCGGGAGAGGGGAGGGGTCATCAACCTCAGGCTGTCT
GAAACCTGGCTCAGAAATTATCAGGTTTTGCCAGATCGAAGTCATCCTAAACTGCTGATGAGTGGAGGTGGGGGT
TATCTTCTCTCCGGCTTCACCGTTGCCATGGACAACCTTAAAGCAGACACCAGCCTCAAATCTAATGCAAGCACT
TTAGAATCACACGAGACTGAGGAGCCTGCAGCTAAAAAACGAAAATGCCCAGAGTCTGACTCT**TAA**CCCTTTTGA
GAATTGCTCTGAATTTTGTTCTCAGGCATTATACAGTTAGTAATTAAACTTTAAATGCCATTACTACTTGTTTTT
TCATATCCCAAGAATAAGAACATGTCTATGTACCCGTTTCTAGGAAGGAGGAGTATATGCCTTTTGTCTATTTCT
GACACAGATGCATTTGGTCTGTCAAAACTGCAACCATGGGGTATGTAGTATGACCAACTGCATTTAACAAAACTC
CTCTAAGTACTTCTAAATATTCTGTGCAAATATCTTGAGAACTTCAACATCCTAAAAATGTGTTCTACAAGACT
TTATATTTTAAGCTAAGTGGAATAATACAACGTAACTAAAACATGGCGGGTACCGAAAGGAGGGCAATTCATGGA
AGAAATTTCCTCTGTTCATTCCGTTCTCTTCAACCTAAGCAATATGGATGTGTGAGTGTGTGATTTATTATGGTA
CCAAAAATGTCCACCTTCTTTCCTGCAGCGGAATAAGCTTTTTTGAAATGCTGAGGTTTTATTTTAATAGTTGAC
AACCTGGGAAAGTTCTGAGTATTTATTTTACTGCTCTTTTTTGTGCATAGAAAGGTTTAGTAGGGTACTTTTTTG
CATTAATTTGCCAATACTCTTATTCTTTGTTCTAAATAAAGTGACTAGAATTTTTGTGTACTATTCAATTAAAGG
AAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1419

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MEGSGEQPGPQPQHPGDHRIRDGDFVVLKREDVFKAVQVQRRKKVTFEKQWFYLDNVIGHSYGTAFEVTSGGSLQ
PKKKREEPTAETKEAGTDNRNIVDDGKSQKLTQDDIKALKDKGIKGEEIVQQLIENSTTFRDKTEFAQDKYIKKK
KKKYEAIITVVKPSTRILSIMYYAREPGKINHMRYDTLAQMLTLGNIRAGNKMIVMETCAGLVLGAMMERMGGFG
SIIQLYPGGGPVRAATACFGFPKSFLSGLYEFPLNKVDSLLHGTFSAKMLSSEPKDSALVEESNGTLEEKQASEQ
ENEDSMAEAPESNHPEDQETMETISQDPEHKGPKERGSKKDYIQEKQRRQEEQRKRHLEAAAALLSERNADGLIVA
SRFHPTPLLLSLLDFVAPSRPFVVYCQYKEPLLECYTKLRERGGVINLRLSETWLRNYQVLPDRSHPKLLMSGGG
GYLLSGFTVAMDNLKADTSLKSNASTLESHETEEPAAKKRKCPESDS
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FIGURE 1420

GGCAGTTAGTCGGCTGCA**ATG**GCGCCGGTGAGGCGGTCCGCGAAGTGGCGGCCTGGTGGTATTGAGGCGCGTGGT
GAAGGGGTTTCCACTGTCGGGTACAGGAATAAGAATGTGAGACAGAAGACATGGCGGCCTAACCACCCGCAAGCC
TTCGTGGGGAGCGTTCGCGAGGGACAAGGCTTTGCTTTTCGAAGAAAACTGAAAATACAGCAAAGTTACAAGAAA
TTGCTACGGAAGGAAAAGAAGGCTCAAACGTCACTGGAATCTCAATTCACAGATCGATACCCAGATAATCTGAAA
CATCTCTATTTAGCTGAAGAGGAAAGACATAGGAAGCAAGCAAGAAAAGTCGACCATCCTTTGTCAGAACAAGTT
CACCAGCCGTTGCTTGAAGAACAGTGTAGCATTGACGAGCCTTTATTTGAAGATCAGTGTAGCTTTGACCAGCCT
CAGCCAGAAGAACAATGTATTAAAACAGTAAACTCCTTTACAATTTCAAAGAAAAATAAAAAGAAAACATCAAAT
CAAAAAGCACAAGAAGAATATGAACAGATACAAGCCAAACGTGCTGCTAAGAAACAAGAATTCGAGAGGAGAAAA
CAGGAGAGAGAAGAAGCCCAAAGGCAGTACAAAAAGAAGAAAATGGAAGTGTTTAAAATACTGAACAAAAAGACT
AAAAAGGGCCAACCAAACTTGAATGTACAAATGGAGTACCTTCTTCAAAAAATACAAGAAAAATGT**TAA**ACATTT
TGTTCCTACAGGTTAAAAATATCTGCTGCCTATTAGGTTCTTCTGTGACATGTGCCTCCCAGCAGTGAACTAAATT
TGTCGACATAAACTGGATTGCTAAACTATGCTAAATATAAGATGTTCACATATTTTTATTATGGTAAAAAATTTT
CTAAATATGTTCTACATGTTTCTTATTTATTTGCCTCTGAAGGAAGGTTGGCCTGAAGAACTGAAAGAACCTCTT
ATTTTGCAAGACAGGCCCAAGCATGTAATACTTTTGTACCATATGAGATTTATATGAAATAAATTTTTTAAAAAT
AAGGAAAAAAAAAAAA

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FIGURE 1421

MAPVRRSAKWRPGGIEARGEGVSTVGYRNKNVRQKTWRPNHPQAFVGSVREGQGFAFRRKLKIQQSYKKLLRKEK
KAQTSLESQFTDRYPDNLKHLYLAEEERHRKQARKVDHPLSEQVHQPLLEEQCSIDEPLFEDQCSFDQPQPEEQC
IKTVNSFTISKKNKKKTSNQKAQEEYEQIQAKRAAKKQEFERRKQEREEAQRQYKKKKMEVFKILNKKTKKGQPN
LNVQMEYLLQKIQEKC

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FIGURE 1422

AGCTTCGCGCTAGTGCTGTTTTTTTTTTTTTTTTTTTTTAGCA**ATG**GCGGTTCCCGGCGTGGGGCTCTTGACCCG
TTTGAACCTGTGTGCCCGGAGAAGAACTCGAGTCCAGCGGCCTATCGTCAGGCTTTTGAGTTGCCCAGGAACTGT
GGCCAAAGACCTTAGGAGAGACGAGCAGCCTTCAGGGAGCGTGGAGACAGGCTTTGAAGACAAGATTCCCAAAAG
GAGATTCTCTGAGATGCAAAATGAAAGACGAGAACAGGCACAGCGGACTGTTTTAATACATTGCCCAGAGAAAAT
CAGTGAAAACAAGTTTCTTAAATATTTATCCCAATTTGGACCTATTAATAATCATTTCTTCTATGAAAGCTTTGG
TCTCTATGCTGTCGTAGAATTTTGCCAAAAGGAAAGCATAGGTTCACTGCAGAATGGGACTCATACTCCAAGCAC
GGCCATGGAGACTGCAATTCCATTCAGATCACGTTTCTTCAATCTGAAGTTGAAAAACCAGACTTCTGAACGGTC
ACGCGTACGGTCAAGTAATCAGTTGCCACGTTCAAACAAGCAGCTTTTTGAATTACTTTGTTATGCAGAAAGTAT
AGACGATCAGCTGAACACTCTCTTGAAGGAGTTCCAGCTAACAGAGGAGAACACTAAGCTCCGATATCTCACCTG
TTCTCTTATTGAAGACATGGCCGCCGCGTATTTTCCAGACTGCATAGTCAGACCCTTTGGCTCCTCAGTCAACAC
TTTTGGGAAGTTAGGATGTGATTTGGACATGTTTTTGGATCTAGATGAAACCAGAAACCTCAGCGCTCACAAGAT
CTCAGGAAATTTTCTGATGGAATTTCAAGTGAAAAATGTTCCTTCAGAAAGAATTGCAACTCAGAAGATCCTGTC
TGTGTTAGGAGAGTGCCTTGACCACTTTGGCCCTGGCTGTGTGGGTGTGCAAAAAATATTAAATGCCCGGTGTCC
GCTCGTGAGGTTCTCACACCAGGCCTCCGGATTTCAGTGTGATTTGACTACGAACAATAGGATTGCCTTGACAAG
TTCCGAACTCCTTTATATATATGGTGCCCTAGACTCAAGAGTGAGAGCCTTGGTGTTCAGTGTACGGTGCTGGGC
TCGAGCACATTCACTAACAAGTAGTATTCCTGGTGCATGGATTACAAATTTCTCCCTTACAATGATGGTCATCTT
TTTTCTCCAGAGAAGATCACCCCCTATTCTTCCAACACTAGATTCCTTAAAAACCCTAGCAGATGCAGAAGATAA
ATGTGTAATAGAAGGCAACAACTGCACATTTGTTCGTGACTTGAGTAGAATTAAACCTTCACAGAACACAGAAAC
ATTAGAATTACTACTGAAGGAATTTTTTGAGTATTTTGGCAATTTTGCTTTCGATAAAAATTCCATAAATATTCG
ACAGGGAAGGGAGCAAAACAAACCTGATTCTTCTCCTCTGTACATTCAGAATCCATTTGAAACTTCTCTCAACAT
AAGCAAAAATGTAAGTCAAAGCCAGCTGCAAAAATTTGTAGATTTGGCCCGAGAAAGTGCCTTGATTTTACAACA
GGAAGATACAGATCGACCTTCCATATCAAGTAATCGGCCCTGGGGGGCTGGTATCCCTATTGCTACCATCTGCTCC
AAACAGAAAGTCCTTTACCAAGAAGAAAGCAATAAGTTTGCAATTGAAACAGCCAAAAACTTGCTAGAATCTTT
AAAAGGTAACAGAACAGAAAATTTCACAAAAACCAGTGGGAAGAGAACAATTAGTACTCAGACA**TGA**TGGCTGCT
ACATTGTGTAAAGAACTGGGCTTAGCCTATCAAATGGTCTGTGGACTTACTTGGAAAAACTGATTTGAAACTTTC
ACAGATCTCAGCTTTCATCTGATGTCACTTTTCATGATCTTCTCATTGGCCCCCTTAACCTGGTCTGAAGTTCTG
GGATGTTTTCAGTTTGATCAGTCTGATACTCAGTGGCACTTTATTAAAACATCAGCTGTGGAGTGTGGCGGTGCA
CACCTGTAGTCCCAGCTGCTCAGGAGGCTGAGGCAGGAGGATCTCTTGAGCCCAGGATTTTGAATCCATCGTGGA
CAACATAGCAAGATTCCATCTCTAAAAAAAATGAAAATAAACATAAGCCACAAGGAATGGGTGAAAGATTATTGT
AATGTGCTTTAACTAAATAGGTAAATATACTAAACAAATGCTAAAACTCAGTTTTAGGATGAAACCATTGTTGAT
ATCCACATCAGTCCCTGTTTAGAAAACATTTAAAATGACTTTTAGTTATGTACAGTACGTTGGCAATGAATACAT
TAAGCTTCAAAATTTGGTAGTGCTCTCGAATATGTATATTTGTATTTTTCAAGCGAAGTTCTCTTATTCACATAT
AAATTAAAGTGGGTTGGTACTGATATCAAAAAATGTTTATGTTTTTAGAACAGACATTTCAGTCACTGCATTCTT
AGGTATTCCAAACCAAATATGATGACATCAATAGATTGCATTTTAAAAATATTGTTTGATTTTTCTATTTTCAAA
AATAAAATTCTGTTTCTAACT

FIGURE 1423

MAVPGVGLLTRLNLCARRRTRVQRPIVRLLSCPGTVAKDLRRDEQPSGSVETGFEDKIPKRRFSEMQNERREQAQ
RTVLIHCPEKISENKFLKYLSQFGPINNHFFYESFGLYAVVEFCQKESIGSLQNGTHTPSTAMETAIPFRSRFFN
LKLKNQTSERSRVRSSNQLPRSNKQLFELLCYAESIDDQLNTLLKEFQLTEENTKLRYLTCSLIEDMAAAYFPDC
IVRPFGSSVNTFGKLGCDLDMFLDLDETRNLSAHKISGNFLMEFQVKNVPSERIATQKILSVLGECLDHFGPGCV
GVQKILNARCPLVRFSHQASGFQCDLTTNNRIALTSSELLYIYGALDSRVRALVFSVRCWARAHSLTSSIPGAWI
TNFSLTMMVIFFLQRRSPPILPTLDSLKTLADAEDKCVIEGNNCTFVRDLSRIKPSQNTETLELLLKEFFEYFGN
FAFDKNSINIRQGREQNKPDSSPLYIQNPFETSLNISKNVSQSQLQKFVDLARESALILQQEDTDRPSISSNRPW
GLVSLLLPSAPNRKSFTKKKSNKFAIETAKNLLESLKGNRTENFTKTSGKRTISTQT

FIGURE 1424

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TTTGCTAAAGCCACCATAAAGGAAATAGTTGTGTGGCCCATGTTGAGGCCAGACATCTTTACTGGTTTAAGGGGA
CCCCCTAAAGGAATTTTGCTCTTTGGTCCTCCTGGGACTGGTAAAACTCTAATTGGCAAGTGCATTGCTAGTCAG
TCTGGGGCAACATTCTTTAGCATCTCTGCTTCATCCTTAACTTCTAAATGGGTAGGTGAGGGGGAGAAAATGGTC
CGTGCATTGTTTGCTGTTGCAAGGTGTCAGCAACCAGCTGTGATATTTATTGACGAAATTGATTCCTTGTTATCT
CAACGGGGAGATGGTGAGCATGAATCTTCTAGAAGGATAAAAACAGAATTTTTAGTTCAATTAGATGGAGCAACA
ACATCTTCTGAAGATCGTATCCTAGTGGTGGGAGCAACAAATCGGCCACAAGAAATTGATGAGGCTGCCCGGAGA
AGATTGGTGAAAAGGCTTTATATTCCCCTCCCAGAAGCTTCAGCCAGGAAACAGATAGTAATTAATCTAATGTCC
AAAGAGCAGTGTTGCCTCAGTGAAGAAGAAATTGAACAGATTGTACAGCAGTCTGATGCGTTTTCAGGAGCAGAC
ATGACACAGCTTTGCAGGGAGGCTTCTCTTGGTCCTATTCGCAGTTTACAAACTGCTGACATTGCTACCATAACA
CCGGATCAAGTTCGACCCATAGCTTACATTGATTTTGAAAATGCTTTTAGAACTGTGCGACCTAGTGTTTCTCCA
AAAGATTTAGAGCTTTATGAAAACTGGAACAAAACTTTTGGTTGTGGAAAGTAAGTGGGATACTTGGAATCAAGG
CATCTCTGTAGTACAGTCTTCTTTATTTTTTAGCATAGAAAGTTGGGGATGTGTTAATTGTATTTTTAAGAATAT
ATTCTAAGTTCTGTACTTCAAATAATAGCACAGATTTTACATCTGATTGACATAGTGTATGTTAATGTAAGTTTT
GCTTTCCAGTGATTACCTGATACGTAAGCCTATTTGAACAAAGTGAGAATGAACTTTTGTTTCTAAGAAGTCTTT
ATCTTGAAGCTATATAACATGAAAAGTGAGCTCAAATTTTTTTTAGTTGAAGATTACATATAAAGTTGTGTCTGA
TTAATATTCATCTTTTATTGAAGAAAGTGCCTTCTGATGGCCACATAATTCTTAATGTCAGCTAGTATAATGGTT
TACATTTGGACAAAGTATTGCTTAGTGTTATTTAAGTAGATTTAAGATCTCAAAGCTAAAGTGCCAATTTTTACT
TTCTTCAGCCAATTTGTTACCTCTTTTATGGTTTTAAATTTTTATCAGGACTAACATTTTCAGAAATAGCAAGGT
GTGATCTAGTATTAGATTCACAGAACTGAAAGGTTAATTAAGAATGTTGGTTATTTTCACGGGAGCGTGTGATAT
TTAACATTAATATTTTATTTGACACTACAGCCTGTAATACTGCTCTCTTTCAAAAACAAGTTTTCAGATTTTTAT
AACAGACCCATTTTGTTTTATGAAACATGTTCATTACAGAAACATGAGAAAATAGAGATAAGTAAAAAGAATAAA
AGTCACTATTATCCTACCACTTTGCGGGACACACTATTAATATTTAAGCATAGATTCTTCCAGATGTTTTGTTTT
ATACAGCAGTAGGATTGTGTAATGTATTCTCTCTTGTAGCCTATTCTTCAAAGCGTATCTTCACTTTCCATGTTA
ACATAAATGTCCTTTTATGATTGTCTAGGATTCCATGGATGGATGGAATATAATTGAGTCATCTGGTAGAGCGCA
TATAGGACAGGACGCTAGGTTGTTTATCTTTTGTTTATTGTAAAGGAACTATGTGGGATGCATTTGGTGATCTTT
TTAAAAAATGTATAAATTTCTTGAGTAATTCCTGGATTAAAGAATATGCACTTCTT
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FIGURE 1425

MLRPDIFTGLRGPPKGILLFGPPGTGKTLIGKCIASQSGATFFSISASSLTSKWVGEGEKMVRALFAVARCQQPA
VIFIDEIDSLLSQRGDGEHESSRRIKTEFLVQLDGATTSSEDRILVVGATNRPQEIDEAARRRLVKRLYIPLPEA
SARKQIVINLMSKEQCCLSEEEIEQIVQQSDAFSGADMTQLCREASLGPIRSLQTADIATITPDQVRPIAYIDFE
NAFRTVRPSVSPKDLELYENWNKTFGCGK

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FIGURE 1426

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CGTGGTTTCCGGAACTTCGCCCGCGTCTCTGGGCTTTTGCTCTGTCAGGCTGGTGGCGTTTTGGTGTCTTCGTTT
GTTATGGCCGCTGCTGTCGCTATGGAGACAGATGATGCTGGAAATCGACTTCGGTTTCAGTTGGAGTTGGAATTT
GTGCAATGTTTAGCCAACCCAAATTACCTTAATTTTCTTGCCCAAAGAGGTTACTTCAAAGACAAAGCTTTTGTT
AATTATCTTAAATACTTGCTTTACTGGAAAGACCCAGAATATGCCAAGTATCTAAAGTACCCTCAGTGTTTACAC
ATGTTAGAGCTGCTCCAATATGAACACTTCCGAAAGGAGCTGGTGAATGCTCAGTGTGCGAAATTTATTGATGAA
CAGCAGATTCTACATTGGCAGCACTATTCCCGGAAGCGGATGCGCCTTCAGCAAGCCTTGGCAGAGCAGCAACAG
CAAAATAACACATCGGGAAAATGAAAAACTGGATACAAACGAGGCACTTAATACATGTATATAATGTATTTCTTT
TGTACAGTGAAGACAAAAAAAATGAAAACTCTTCCTATCTACCTTTATTATGGTAGCCCCTAGAACCTTTAGTGT
GCTTTTTCATCCAACTTTTTATTGTTAATAGACTATTTCTGTTAAACCTGAATTGTTCTTTGATTTCCCTGTGGA
TTTGTAAGGTGTTTTTCTTTTTTACGCATTTAGCATAATCAGCTGATTAAGAATGGAAAAGTTAGGTGCTTTAGA
CCAAATAAGGCACTGGGGCATGGGGTAGGGGTGGGCCACCAAGTATACTGAATTCTAAGGCTAGCTGTTCCTGAC
ATATAGTAGGGCAAGACCATCTCCTGGAACCTTACTGTCTCAGATCAACTACTCTACCACTCTACTCTAAGATGT
AGTGAGAGTAGCGGAGTCACTGACCTCTTTAAATCATAGGACAGGAACTGCATAAAGGTTCTTGAATTCTGCAGG
ACAGGAAATAACTGTATTACCTGCTTTGCAAGGTGGCTTTAAGAATCACTGAATCACTGTGGCCTCACTTGACCT
AGTCATGGCAGGACAACTAGTGGTTAGTTACTAACTGGACTCTTGACTTTAGAACAAACATGAGGAGCCTCAAAT
ACTTGTGTTCATTTGGGAAAGCTACCATTGATTTGGGAGGTACCACAAACCAGGTGCTATGTTAAGTGCTT
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FIGURE 1427

MAAAVAMETDDAGNRLRFQLELEFVQCLANPNYLNFLAQRGYFKDKAFVNYLKYLLYWKDPEYAKYLKYPQCLHM
LELLQYEHFRKELVNAQCAKFIDEQQILHWQHYSRKRMRLQQALAEQQQQNNTSGK

FIGURE 1428

CTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCA**ATG**GCCGCCCTGCAGAAA
TCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCTTGGTACAGGGAGGA
GCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACC
TTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGACGTTCGTCTCATTGGGGAGAAACTGTTCCAC
GGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCCT
CAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAGCAACAGGCTAAGCACA
TGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGCTTGGA
GAGAGTGGAGAGATCAAAGCAATTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATT**TGA**CCA
GAGCAAAGCTGAAAAATGAATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTTT
TTTTAACCAAAAGGAAGATGGGAAGCCAAACTCCATCATGATGGGTGGATTCCAAATGAACCCCTGCGTTAGTTA
CAAAGGAAACCAATGCCACTTTTGTTTATAAGACCAGAAGGTAGACTTTCTAAGCATAGATATTTATTGATAACA
TTTCATTGTAACTGGTGTTCTATACACAGAAAACAATTTATTTTTTAAATAATTGTCTTTTTCCATAAAAAAGAT
TACTTTCCATTCCTTTAGGGGAAAAAACCCCTAAATAGCTTCATGTTTCCATAATCAGTACTTTATATTTATAAA
TGTATTTATTATTATTATAAGACTGCATTTTATTTATATCATTTTATTAATATGGATTTATTTATAGAAACATCA
TTCGATATTGCTACTTGAGTGTAAGGCTAATATTGATATTTATGACAATAATTATAGAGCTATAACATGTTTATT
TGACCTCAATAAACACTTGGATATCCCAAAAAAAAAAAAAAAA

FIGURE 1429

MAALQKSVSSFLMGTLATSCLLLLALLVQGGAAAPISSHCRLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLI
GEKLFHGVSMSERCYLMKQVLNFTLEEVLFPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKD
TVKKLGESGEIKAIGELDLLFMSLRNACI

FIGURE 1430

CTCGAAAAGGCCCCATGTGGGCAGGGGGTGTGGCAGGAGCTCCCAGCACTGGAGACCCACGGACTCAACCCAGTT
ACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTTCCC
AGCTGCACTCGCCCTGTGGACAGCCCCGACACACCACTTTCCTGAGGCTGTCGCTCACTCAGATTGTCCGTTTGC
TATGCCGAATGCAGCCAAAATTCCTTTTTACAATTTGTGATGCCTTACCGATTTGATCTTAATCCTGTATTTAAA
GTTTTCTAACACTGCCTTATACTGTGTTTCTCTTTTTGGGGGAGCTTAACTGCTTGTTGCTCCCTGTCGTCTGCA
CCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTCTGGCCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCC
TGTCTCCAGGGCTGCTGCGGCCCAGCCCCGAGCCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGCACCTTCCTG
GAGGACGGCATCCGTATGTGGTTCCAGTGGAGCGAGCAGCGCGACTACATCGACACCACCTGGAACTGCGGCTAC
CTGCTGGCCTCGTCCTTCGTCTTCCTCAACTTGCTGGGACAGCTGACTGGCTGCGTCCTGGTGTTGAGCAGGAAC
TTCGTGCAGTACGCCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGCCTACAGCATTTTATGGGAC
TTGAAGTTTTTG**ATG**AGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGCAGAATCCCGTTCTGAAGGG
AAGAGCATGTTTGCGGGCGTCCCCACCATGCGTGAGAGCTCCCCCAAACAGTACATGCAGCTCGGAGGCAGGGTC
TTGCTGGTTCTGATGTTCATGACCCTCCTTCACTTTGACGCCAGCTTCTTTTCTATTGTCCAGAACATCGTGGGC
ACAGCTCTGATGATTTTAGTGGCCATTGGTTTTAAAACCAAGCTGGCTGCTTTGACTCTTGTTGTGTGGCTCTTT
GCCATCAACGTATATTTCAACGCCTTCTGGACCATTCCAGTCTACAAGCCCATGCATGACTTCCTGAAATACGAC
TTCTTCCAGACCATGTCGGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGTCTCCATGGAT
GAGAAGAAGAAGGAGTGG**TAA**CAGTCACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCCGTCAAGGACTGGTT
CGGGGTGGATTCAACAAAACTGCCAGCTTTTATGTATCCTCTTCCCTTCCCCTCCCTTGGTAAAGGCACAGATGT
TTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCTGA
CCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCCACGCCGAGGCTTTGGAGTGAACAGCCCGCTTGGC
TGTGGCATCTCAGTCCTATTTTTGAGTTTTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGCAG
ACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTTTAGCGGAAACTACTAAATT
ATTTTGGGTGGTTCAGCCAAACCTCAAAACAGTTAATCTCCCTGGTTTAAAATCACACCAGTGGCTTTGATGTTG
TTTCTGCCCCGCATTGTATTTTATAGGAATAGTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAAAG
GGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTCAGAAAATCAGCTTGGATTGGTGCCAAGTGTTTTAT
TGGGTAACACCCTGGGAGTTTTAGTAGCTTGAGGCAAGGTGGAGGGGCAAGAAGTCCTTGGGGAAGCTGCTGGTC
TGGGTGCTGCTGGCCTCCAAGCTGGCAGTGGGAAGGGCTAGTGAGACCACACAGGGGTAGCCCCAGCAGCAGCAC
CCTGCAAGCCAGCCTGGCCAGCTGCTCAGACCAGCTTGCAGAGCCGCAGCCGCTGTGGGCAGGGGGTGTGGCAGG
AGCTCCCAGCACTGGAGACCCACGGACTCAACCCAGTTACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAA
GCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTTCCCAGCTGCACTCGCCCTGTGGACAGCCCCGACACACCAC
TTTCCTGAGGCTGTCGCTCACTCAGATTGTCCGTTTGCTATGCCGAATGCAGCCAAAATTCCTTTTTACAATTTG
TGATGCCTTACCGATTTGATCTTAATCCTGTATTTAAAGTTTTCTAACACTGCCTTATACTGTGTTTCTCTTTTT
GGGGGAGCTTAACTGCTTGTTGCTCCCTGTCGTCTGCACCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTC
TGGCCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCCTGTCTCCAGGGCTGCTGCGGCCCAGCCCCGAGCCTGC
CTCCCTCTTGGCCTCTCATCCATTGGCTCTGCAGGGCAGGGGTGAGGCAGGTTTCTGCTCATAAGTGCTTTTGGA
AGTCACCTACCTTTTTAACACAGCCGAACTAGTCCCAACGCGTTTGCAAATATTCCCCTGGTAGCCTACTTCCTT
ACCCCCGAATATTGGTAAGATCGAGCAATGGCTTCAGGACATGGGTTCTCTTCTCCTGTGATCATTCAAGTGCTC
ACTGCATGAAGACTGGCTTGTCTCAGTGTTTCAACCTCACCAGGGCTGTCTCTTGGTCCACACCTCGCTCCCTGT
TAGTGCCGTATGACAGCCCCCATCAAATGACCTTGGCCAAGTCACGGTTTCTCTGTGGTCAAGGTTGGTTGGCTG
ATTGGTGGAAAGTAGGGTGGACCAAAGGAGGCCACGTGAGCAGTCAGCACCAGTTCTGCACCAGCAGCGCCTCCG
TCCTAGTGGGTGTTCCTGTTTCTCCTGGCCCTGGGTGGGCTAGGGCCTGATTCGGGAAGATGCCTTTGCAGGGAG
GGGAGGATAAGTGGGATCTACCAATTGATTCTGGCAAAACAATTTCTAAGATTTTTTTGCTTTATGTGGGAAACA
GATCTAAATCTCATTTTATGCTGTATTTTATATCTTAGTTGTGTTTGAAAACGTTTTGATTTTTGGAAACACATC
AAAATAAATAATGGCGTTTGTTGTATGCAGTGTGATCCTATAGCGTTGCCCAGCCTGAATGGGGCTCCCCTCAGG
ATGCCAGTGAGCGAGGTTACTTCTCTAGGCTTCTCTGAAGACCACTCAGAAGCCATGTCCAGAGAGAATTAGTCC
CTCAGAGTCCCTGCTGCTTCCTGGGTGTGGGGGACAGACTCCCTCAGCCCTGCCTTAGAGGGCAGCAGATGTCAT
GAGACAAGGATAAGTGGGTAGAGAAGACACTGGGGACAACCCGATCATTCAGAGGACACACGGTTTGATCAGGAG
CGGGGGAAATATCTGAAGGCTTTCTCGAAACTTCACGGCATGTGCT

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FIGURE 1431

MRNLALGGGLLLLLAESRSEGKSMFAGVPTMRESSPKQYMQLGGRVLLVLMFMTLLHFDASFFSIVQNIVGTALM
ILVAIGFKTKLAALTLVVWLFAINVYFNAFWTIPVYKPMHDFLKYDFFQTMSVIGGLLLVVALGPGGVSMDEKKK
EW

FIGURE 1432A

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GCTGACGGTTGCTGCACACACAGTCCCCACGTCAGATCCTGAGCTTGCAGGGGAGAGCTCCGTCGGGCTGGGAAG
CGCCAGCCCTGGTTTGCAACAGCACACATGCGCTGTCCAGAGCCTGGGGCCTCCTCCTGCTGCTCTGGAGATTTT
CGGATAACTGTAAACGTGATCTTACTATTCAGTCAACCATGTGGCCCTCTAGGTGTGGCACCCTGGCTGTCACCT
AAGCCAACCCTTGTTCTGTCAGGGTACTCTGGGCGTCACTGGGCAGGCTGGGAGGTCCAGGCCCTTGGCACCTCA
GCCATGTGTGACCTGCAGGCTGGGGTCAAGTCTTGGCATTGCACCATCAGGTCTGCGAAGCCTAGGGGAACCCCT
TCCCGCTGGGTTTAATATAGCCATTTGTAAGGTGAGGGGTTGGACCAGAGCAGCGGAGATGCCTGGCAAAGTGCA
GCGGTGCCTCAGGAGGGAGGCTGCTGCTGGCATGTCGTGGGCAGACATGTCGTGCGTCATAGCCTGCAGCACCCA
GGATGACCCACGGCAAAGAGTGGCCTGGCCTCAGATGCCAGTAGTGCTGAGGTGCAGAAACGTTGGATAGATGAC
CTCTAAGTGCCTTTTCAGATGTCATTCTGTGATTCCAACTTGTAAATGCCTTTGACCGAAAAGAGCAGCTCTGTG
TCTTGTGGCAGTGCCACCTTGGAAGACTGTAGTTGCCTGCCGAGGCACTGGGGGAAATCACGGTAGCAGAGTGTT
AGGGCTGCTGCCCTATAGGATCTGCCCCAGAGGGCCTAACGTCAAGTCATGCATCTCCGGGACTGATCCTTGGAT
TGTTGCATGTGTCCAGACTCACAGGGTAGCGCTCAGGAGCAAGCACTGAGAGCCCCCTAGTCTGCCCTGGGAAGG
CACCGGGGCTGACAAGAGCTCTTGCCTTCCACAGCGTCTGTTCCTCACACACCCCGCCCAAGGACGTGCCTGGCA
GCGGCCTGGTGCTCCCCGCCGCAGCCACCTCACCCTTGGGTTTCTGTGGCCCTGCAGTTCCTCCGTGTCACAAAG
CAGTACCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGCACCTTCCTGGAGGACGGCATCCGTATGTGGTTCCAG
TGGAGCGAGCAGCGCGACTACATCGACACCACCTGGAACTGCGGCTACCTGCTGGCCTCGTCCTTCGTCTTCCTC
AACTTGCTGGGACAGCTGACTGGCTGCGTCCTGGTGTTGAGCAGGAACTTCGTGCAGTACGCCTGCTTCGGGCTC
TTTGGAATCATAGCTACTGCAGACGATTGCCTTACAGCATTTTATGGGACTTGAAGTTTTTGATGAGGAACCTGG
GCCCTGGGAGGAGGCCTGTGCTGCTCCTAGCAGAATCCCGTTCTGAAGGGAAGAGCATGTTTGCGGGCGTCCCCA
CCATGCGTGAGAGCTCCCCCAAACAGTACATGCAGCTCGGAGGCAGGGTCTTGCTGGTTCTGATGTTCATGACCC
TCCTTCACTTGGACGCCAGCTTCTTTTCTATGTCCAGAACATCGTGGGCACAGCTCTGATGATTTTAGTGGCCAT
TGGTTTTAAAACCAAGCTGGCTGCTTTGACTCTTGTTGTGCGGCTCTTTGCCATCAACGTATATTTCAACGCCTT
CTGGACCATTCCAGTCTACAAGCCCATGCATGACTTCCTGAAATACGACTTCTTCCAGACCATGTCGGTGATTGG
GGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGTCTCCATGGATGAGAAGAAGAAGGAGTGGTAACAGTC
ACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCGTCAAGGACTGGTTCGGGGTGGATTCAACAAAAACTGCAGC
TTTTATGTATCCTCTTCCCTTCCCCTCCCTTGGTAAAGGCACAGATGTTTTGAGAACTTTATTTGCAGAGACACC
TGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCTGACCCTTCAGTGCAGGCCAGCCTGGCAGC
TGGAAGCCTCCCCCACGCCGAGGCTTTGGAGTGAACAGCCCGCTTGGCTGTGGCATCTCAGTCCTATTTTTGAGT
TTTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGCAGACGCATTGGTATTATCATTCAAAGCAG
TCTCCCTCTTATTTGTAAGTTTACATTTTTAGCGGAAACTACTAAATTATTTTGGGTGGTTCAGCCAAACCTCAA
AACAGTTAATCTCCCTGGTTTAAAATCACACCAGTGGCTTTGATGTTGTTTCTGCCCCGCATTGTATTTTATAGG
AATACTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAAAGGGGTGGTAGAAGCTGCTGTTTATGATA
AAAGTCATCGGTCAGAAAATCAGCTTGGATTGGTGCCAAGTGTTTTATTGGGTAACACCCTGGGAGTTTTAGTAG
CTTGAGGCAAGGTGGAGGGGCAAGAAGTCCTTGGGGAAGCTGCTGGTCTGGGTGCTGCTGGCCTCCAAGCTGGCA
GTGGGAAGGGCTAGTGAGACCACACAGGGGTAGCCCCAGCAGCAGCACCCTGCAAGCCAGCCTGGCCAGCTGCTC
AGACCAGCTTGCAGAGCCGCAGCCGCTGTGGGCAGGGGGTGTGGCAGGAGCTCCCAGCACTGGAGACCCACGGAC
TCAACCCAGTTACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGCAC
CGCCCTTTCCCAGCTGCACTCGCCCTGTGGACAGCCCCGACACACCACTTTCCTGAGGCTGTCGCTCACTCAGAT
TGTCCGTTTGCTATGCCGAATGCAGCCAAAATTCCTTTTTACAATTTGTGATGCCTTACCGATTTGATCTTAATC
CTGTATTTAAAGTTTTCTAACACTGCCTTATACTGTGTTTCTCTTTTTGGGGGAGCTTAACTGCTTGTTGCTCCC
TGTCGTCTGCACCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTCTGGCCCCTAGACCTATCTGGGGACAGG
CTGGCTCAGCCTGTCTCCAGGGCTGCTGCGGCCCAGCCCCGAGCCTGCCTCCCTCTTGGCCTCTCATCCATTGGC
TCTGCAGGGCAGGGGTGAGGCAGGTTTCTGCTCATAAGTGCTTTTGGAAGTCACCTACCTTTTTAACACAGCCGA
ACTAGTCCCAACGCGTTTGCAAATATTCCCCTGGTAGCCTACTTCCTTACCCCCGAATATTGGTAAGATCGAGCA
ATGGCTTCAGGACATGGGTTCTCTTCTCCTGTGATCATTCAAGTGCTCACTGCATGAAGACTGGCTTGTCTCAGT
GTTTCAACCTCACCAGGGCTGTCTCTTGGTCCACACCTCGCTCCCTGTTAGTGCCGTATGACAGCCCCCATCAAA
TGACCTTGGCCAAGTCACGGTTTCTCTGTGGTCAAGGTTGGTTGGCTGATTGGTGGAAAGTAGGGTGGACCAAAG
GAGGCCACGTGAGCAGTCAGCACCAGTTCTGCACCAGCAGCGCCTCCGTCCTAGTGGGTGTTCCTGTTTCTCCTG
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FIGURE 1432B

GCCCTGGGTGGGCTAGGGCCTGATTCGGGAAGATGCCTTTGCAGGGAGGGGAGGATAAGTGGGATCTACCAATTG
ATTCTGGCAAAACAATTTCTAAGATTTTTTGCTTTATGTGGGAAACAGATCTAAATCTCATTTTATGCTGTATTT
TATATCTTAGTTGTGTTTGAAAACGTTTGATTTTGGAAACACATCAAAATAAATAATGGC

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FIGURE 1433

LTVAAHTVPTSDPELAGESSVGLGSASPGLQQHTCAVQSLGPPPAALEIFG

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FIGURE 1434

GGCGGAGAGGGCCGGCCGCCGGCACATTCCTGTGGAGGCCGCAGCGGGTGCGGCGCCGACGGGAGGAGCAGCGAG
CGAGCGACGAACGCCGAGCCGAGCCTCCCGCCGTCGCC**ATG**GGCCAGAACGACCTGATGGGCACGGCCGAGGACT
TCGCCGACCAGTTCCTCCGTGTCACAAAGCAGTACCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGCACCTTCC
TGGAGGACGGCATCCGTATGTGGTTCCAGTGGAGCGAGCAGCGCGACTACATCGACACCACCTGGAACTGCGGCT
ACCTGCTGGCCTCGTCCTTCGTCTTCCTCAACTTGCTGGGACAGCTGACTGGCTGCGTCCTGGTGTTGAGCAGGA
ACTTCGTGCAGTACGCCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGCCTACAGCATTTTATGGG
ACTTGAAGTTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGCAGAATCCCGTTCTGAAG
GGAAGAGCATGTTTGCGGGCGTCCCCACCATGCGTGAGAGCTCCCCCAAACAGTACATGCAGCTCGGAGGCAGGG
TCTTGCTGGTTCTGATGTTCATGACCCTCCTTCACTTTGACGCCAGCTTCTTTTCTATTGTCCAGAACATCGTGG
GCACAGCTCTGATGATTTTAGTGGCCATTGGTTTTAAAACCAAGCTGGCTGCTTTGACTCTTGTTGTGTGGCTCT
TTGCCATCAACGTATATTTCAACGCCTTCTGGACCATTCCAGTCTACAAGCCCATGCATGACTTCCTGAAATACG
ACTTCTTCCAGACCATGTCGGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGTCTCCATGG
ATGAGAAGAAGAAGGAGTGG**TAA**CAGTCACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCCGTCAAGGACTGG
TTCGGGGTGGATTCAACAAAACTGCCAGCTTTTATGTATCCTCTTCCCTTCCCCTCCCTTGGTAAAGGCACAGAT
GTTTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCT
GACCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCCACGCCGAGGCTTTGGAGTGAACAGCCCGCTTG
GCTGTGGCATCTCAGTCCTATTTTTGAGTTTTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGC
AGACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTTTAGCGGAAACTACTAAA
TTATTTTGGGTGGTTCAGCCAAACCTCAAAACAGTTAATCTCCCTGGTTTAAAATCACACCAGTGGCTTTGATGT
TGTTTCTGCCCCGCATTGTATTTTATAGGAATACTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAA
AGGGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1435

MGQNDLMGTAEDFADQFLRVTKQYLPHVARLCLISTFLEDGIRMWFQWSEQRDYIDTTWNCGYLLASSFVFLNLL
GQLTGCVLVLSRNFVQYACFGLFGIIALQTIAYSILWDLKFLMRNLALGGGLLLLLAESRSEGKSMFAGVPTMRE
SSPKQYMQLGGRVLLVLMFMTLLHFDASFFSIVQNIVGTALMILVAIGFKTKLAALTLVVWLFAINVYFNAFWTI
PVYKPMHDFLKYDFFQTMSVIGGLLLVVALGPGGVSMDEKKKEW

FIGURE 1436A

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CCGGTTCCCGCGGTCGCAGCTCCAGCCGCCTCCTCCGCGCAGCCGCCGCCTCAGCTGCTCGCTCTGTGGGTCGGT
CCTCTCCGGCACTTGGGCTCCAGTCGCGCCCTCCAAGCCCTTCAGGCCGCCCCAGTGTCCTCCTCCTTCTCCGGC
CAGACCCAGCCCCGCGAAGATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGGCTGGCCGAGCAGGCGGAGCG
CTACGACGACATGGCCGCGGCCATGAAGAACGTGACAGAGCTGAATGAGCCACTGTCGAATGAGGAACGAAACCT
TCTGTCTGTGGCCTACAAGAACGTTGTGGGGGCACGCCGCTCTTCCTGGAGGGTCATCAGTAGCATTGAGCAGAA
GACATCTGCAGACGGCAATGAGAAGAAGATTGAGATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGGA
GGCTGTGTGCCAGGATGTGCTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGTACGAGAG
CAAAGTGTTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAGTGGCCACCGGAGAGAAAAGGGC
GACGGTGGTGGAGTCCTCCGAGAAGGCCTACAGCGAAGCCCACGAGATCAGCAAAGAGCACATGCAGCCCACCCA
CCCCATCCGATTAGGCCTGGCTCTTAACTACTCCGTCTTCTACTATGAGATCCAGAACGCCCCAGAGCAAGCGTG
CCACTTGGCCAAGACCGCGTTCGACGACGCCATCGCCGAGCTTGACACCCTCAACGAGGACTCCTACAAGGACTC
CACGCTCATCATGCAGCTCCTCCGCGACAACCTCACGCTCTGGACGAGCGACCAGCAGGACGACGATGGCGGCGA
AGGCAACAATTAAGGCCCCAGGGGAACTGGCAGCGCACGCGGATGCTACTACTGCAGTCTTTATTTTTTTCCCAT
GAGTTGGGGGTCGGGTGGGGGAGGGAAAGGGAGGGATGACCTTCCCAGGGAGAAACCCACGACCTGTCCTGTCTT
TGATCGCCTCTTTGACATTTTTGCCAAAATACCACTAGTGGAAAGTCAGGCTAGCTGTGCTGGTATTGGAATAGC
AGCCTCACACTGGCGTCTGGACTGTTCTGTAGATTCATGCAAGTGGAGCTGTCTGTCTCTAATTTAACTTATTGC
TAGATAATAGGGTTTTCAGATGAAAAGAAAACTTAAAGAGGAATGGCCCTCATTCAGTAAGTTCTGTGGTTCCAG
TAAGGATTTTTATGTACATACGCTCTCGTCTCTCGTTTTGGGTACTTTCTATCTCATCGTCTCGGCTCTGCATG
TTTTCCAGGGTGTAGCCTACAGACATGGAACAGTGTAAATCCCAGACTGACAGACTTAGAACCTGAGGTCTCATT
CATCCTTATGGTTTAGGCCTTGCCAGTTTTCCGAAGTCTCTGATTAGTTGACAGTATTAACACTAAATTGCAGTT
TACAGTATTTCTACATTACAGCCATATGTAACATCAAGCCATCGATTGTGTACTTTTCCTTTGCTAGTTGTTTGG
GCTTTAACATCCTTATTCAGCCTTATCCAGGTTGGTTTTGCTGTTGATCGGTCTCCTAGGCTAAATGAGAATGAA
AGCGACTTCAGGTTTTTGGTTCATAGGTGCTCGGCAGGTGGCTGTGGGATTTTTTTTTTTGGTCCTTCTTTCCTC
TTAACGTAAATCCACCACCAAAATTATTAATCCTCTTGAGAGAAACGTGAAACGCCACAAAAATAGAGAAAATTC
AGGTCTGTATGTCATGGATCGTGTTGGTATTTTCAGAGAACATCCCGCTTCTGAAGCTGCTGCAGCTCCCTCCTC
AGGGATCACACTGCCGTCACCCACTCTGCACTGGGGCGTTTCCTACTGCGCCTCGTGCTGGCGGACGCAGCTGGG
TGCAGAAGCTGTGGGGTCGGAGAGGCGTTTGGAGAAGGTCTGTGGTGCAGTGTGTGAAAATTCAGGTGCTAGAAG
CCTACTGGTAGAAAAACCCAAAAGGAAGAGCTATATCCTTAACCATTCTGTCCAATTTCGGGAGCCTTGTCAGTG
TGTCAGTTTTTCCTCCCCGAAGCACACTCCTTCCCCAAGTAATTGTAGGAAGATAAAAAAACTGTTACCAGATAAC
AAACACTTAACTCCTATTTGACCAGAACTTTTTCCTCTCGAGATAGTTTTTTCTTTTTAATGAAAAAAGCATAGG
.AATTGGAGATTGGCTTGTCTCACGCAGCCAGTGCACATTTGGAATTGACGGAAACAACGTTGCTATTTCCACCCA
TTTGTTTTCGGCAGCCTTAAGGCCCTCATTCTCATTTCGGGTGAATCTGTCTATCTGTGAACGTGGCCCGCATGT
GCATTCTTTTTTTTATATATATAAAGTCAGTGACGAGGCACTCCCGAGACGTGTAATGACACCACACTTGTTTTC
TTTGTTTCTTTGTTTTATTTAGGCAAGAAGAGGTGTGAGTAATTGAGGAAAAACTGACAGATGCTTTTGCTAATA
CCAAAATTGAGCTTACAATTAGGAACTGAGTATGTGTAACAGGATACAGGTGACAGTGAAGATAGAAGAACCACG
ATGACCACAGACTCAATGTGCTCTGTAACATCGCACAGTTTACCCAGCATGACTTTCCTTAGGAGGCCCCCTCCT
CACGCTAGAGTAAAAGTCCCAGTTAAGTGAAGCCTACCAGAAGAACTAGTAGAAGAAGCTTTGCCGCTTTTGTGC
CTCTCACAGGCGCCTAAAGTCATTGCCATGGGAGGAAGACGATTTGGGGGGGGAGGGGGGGGGGCAGGGTAGGTGG
GGCTTTCCCTAATTTATCTTCATGTCCAGTGAGCAGTGTTGCGTTTTTCCTTGTAGCATTTGGAAATGATTTACT
GGAATTACAAAACCTATTTTTCCTTTAAATTTCAGCTTTGGCTCTGGCTGCTTTTTAGAATAATGCAAGATAAAA
ATCACACCTGAGGGCTGAAAACGGAGAGGGAATGGGAGACTTGATATTTAAGCAGCTTGAATGGTTTTTCTTTTC
TTTATTTTTAAAGAAATGCACTTGCCTATGATACTGTCTCTCCAGTGAAATGATTACTCCTCCATTACTCTATTG
ATACAATATTGTGCATGCTAGTGTTGTATTTCTATACAGTAGCTTGAAATTGATTAACTTATACTGTAGGTGTTA
TGTATTCCTATGACAAAAAAAATTAAGTCTTCAAATTTTTTAAAGGTTTTTTTTTTTAATTTAATTTTTCCTTT
TGGGGGTAAAGTTTGCTCTACCAAATAGTGATTGTAACAAATTGATCTGTTTTGGATGTTGCTATAGTGACATGC
AGTTATATATTTTGTTTTTAAAAGGGGGGGAGCAAAAGAAACACCAGTGTTAGCTTAATCTTAATGTCTGGTGTT
TGTCATGGTGAAATTATAACTATTACAGTGTTGGAGAACAACAAATATGTTCTCTGAATGAGCCTTTGTGCTTTT
TGTCATGTTATGCAGTGAACTATTTTTAAGGTCTAATCAGTGATTATTTTTCCAGCTCCGTGTTTCTCTAAGGAA
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FIGURE 1436B

TTATTTCACACACGGACCATCTTTAGCAGTTTCCTCAGTGATGGAATATCATGAATGTGAGTCATTATGTAGCTG
TCGTACATTGAGCAAATAAACTTACAGATCTGACGCC

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FIGURE 1437

MVDREQLVQKARLAEQAERYDDMAAAMKNVTELNEPLSNEERNLLSVAYKNVVGARRSSWRVISSIEQKTSADGN
EKKIEMVRAYREKIEKELEAVCQDVLSLLDNYLIKNCSETQYESKVFYLKMKGDYYRYLAEVATGEKRATVVESS
EKAYSEAHEISKEHMQPTHPIRLGLALNYSVFYYEIQNAPEQACHLAKTAFDDAIAELDTLNEDSYKDSTLIMQL
LRDNLTLWTSDQQDDDGGEGNN

FIGURE 1438

ATGGCATTGGCGTCCGGGCCCGCAAGCGCTAAGCATGGCTCCGGGCAGCTCGGCCTTGGGGGCTTCGGGGCCCGA
GACGCGGGGTATGAGTGGGGCGTGCGCTCCACGCGGAAGTCGGAGCCTCCTCCCCTGGATAGGGTGTACGAGATC
CCTGGACTGGAGCCCATCACCTTTGCGGGGAAGATGCACTTCGTGCCCTGGCTGGCGCGGCCGATCTTTCCGCCC
TGGGACCGCGGCTACAAGGACCCAAGGTTCTACCGCTCGCCCCCTCTTCACGAGCATCCGCTGTACAAAGACCAG
GCCTGCTATATCTTTCACCACCGTTGCCGCCTTCTCGAGGGTGTAAAGCAGGCCCTCTGGCTCACCAAGACCAAG
TTAATAGAAGGCCTTCCCGAGAAAGTGCTTAGCCTTGTTGATGATCCAAGGAACCACATAGAGAACCAAGACGAG
TGCGTTCTGAATGTGATCTCTCACGCCCGTCTCTGGCAGACCACTGAGGAAATCCCCAAGAGAGAGACCTACTGC
CCGGTCATCGTGGACAACCTAATACAGCTGTGTAAATCTCAGATTCTCAAGCATCCTTCTCTGGCCAGGAGGATC
TGTGTCCAAAACTCCACGTTTTCTGCTACCTGGAACCGAGAGTCTCTTCTCCTTCAAGTCCGTGGTTCTGGTGGA
GCCCGACTGAGCACTAAGGATCCTCTGCCCACCATCGCCTCCAGAGAGGAGATTGAAGCTACTAAGAATCATGTT
CTAGAGACCTTCTACCCCATATCACCCATCATCGATCTTCATGAATGCAATATTTATGATGTGAAAAATGACACA
GGATTCCAGGAAGGCTATCCTTACCCCTATCCCCATACCCTGTACTTACTGGACAAAGCCAATTTACGACCACAC
CGCCTTCAACCAGATCAGCTGCGGGCCAAGATGATCCTGTTTGCTTTTGGCAGTGCCCTGGCTCAGGCCCGCTCC
TCTATGGGAATGATGCCAAGGTCTTGGAGCAGCCCGTGGTGGTGCAGAGCGTGGGCACGGATGGACGTGTCTTCC
ATTTCC**TAG**

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FIGURE 1439

MALASGPASAKHGSGQLGLGGFGARDAGYEWGVRSTRKSEPPPLDRVYEIPGLEPITFAGKMHFVPWLARPIFPP
WDRGYKDPRFYRSPPLHEHPLYKDQACYIFHHRCRLLEGVKQALWLTKTKLIEGLPEKVLSLVDDPRNHIENQDE
CVLNVISHARLWQTTEEIPKRETYCPVIVDNLIQLCKSQILKHPSLARRICVQNSTFSATWNRESLLLQVRGSGG
ARLSTKDPLPTIASREEIEATKNHVLETFYPISPIIDLHECNIYDVKNDTGFQEGYPYPYPHTLYLLDKANLRPH
RLQPDQLRAKMILFAFGSALAQARSSMGMMPRSWSSPWWCRAWARMDVSSIS

FIGURE 1440

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AAGTGCTGGTGCCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTCGGCCGCCGCCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAGAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGGA
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCCTGAAGACAAACCAGCACCAAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTCAGGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAAGGTGGCTTTCTTCC
TCCAGAAGAAATAAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAACTGAATTCATGGACAATCTTGCTAA
ATGCCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCCTGGGTGGAAAAATTTGACAGTTATTTTATCTGA
TGCTAGTGCTCCTGGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCAAAGAGCCCAGCCTAACCATGA
CCCAAATACTCATCATTGTTTATGTGGAGCAGATGCTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAATTCAAACCAAACAAGCCCAAACCATGTGGTCTTTGTAATCAGTTTGGACATGA
GGTCAAAGATTGTGAAGGTTTGCCAAGAGAAAAGAAGGGAAAGCATGATGAACTTGCCGATAGTCTTCCTTGTGC
AGAAGGAGAGTTTATCTTCCTTCGGCTTAATGTTCTTCGTGAGTATTTGGAAAGAGAACTCACAATGGCCAGCCT
ACCATTCACATTTGATGTTGAGAGGAGCATTGATGACTGGGTTTTCATGTGCTTCTTTGTGGGAAATGACTTCCT
CCCTCATTTGCCATCGTTAGAGATTAGGGAAAATGCAATTGACCGTTTGGTTAACATATACAAAAATGTGGTACA
CAAAACTGGGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAGTTGAGGATAGCATTTTTAAAAAGAGAAAGGATGATGAGGACAGTTTTAGAAGACGACAGAAAGAAAAAAG
AAAGAGAATGAAGAGAGATCAACCAGCTTTCACTCCTAGTGGAATATTAACTCCTCATGCCTTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAATAACTCTAGTCC
TTCGATATCTCCTAATACGAGTTTCACATCTGATGGCTCCCCGTCTCCATTAGGAGGAATTAAGCGAAAAGCAGA
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTCAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATTCCGTCGGAAAGTTGTGCAGTCGTACGTTGAAGGACTTTG
CTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCCTGGAAGTGGTATTATCCATTTCATTATGCACCATTTGC
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTGAGAAGGGTACGAAACCGTTTAAACCACTAGAACA
ACTTATGGGGGTATTTCCAGCTGCAAGTGGTAATTTTCTACCTCCATCATGGCGGAAGCTCATGAGTGATCCTGA
TTCTAGTATAATTGACTTCTATCCTGAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCGTGGATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGGAGGTGATGTCTTATTTGTGGGGAAACATCACCCACTCCATGACTTCATTTT
AGAGCTGTACCAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCCTGAACTATGTCATGGGATTCAAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCCTGTTCCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGCTGAAGATTACATTTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTGACTGGGAAAAATCCAGCAATGGACGGCAGTGGAAGCC
TCAGCTTGGCTTTAACCGTGACCGGAGGCCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAACTGGCATTTACAGCAATGCTGCACCACCACCTGTGACTTACCAGGGAAACTTATACAG
GCCGCTTTTGAGAGGACAAGCCCAGATTCCAAAACTTATGTCAAATATGAGGCCCCAGGATTCCTGGCGAGGTCC
TCCTCCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAAACCCAGAATGCAGCCTTCCAGCCAAACCAGTACCAGATGCTAGCTGGGCCTGGTGGGTATCCACCCAGACG
AGATGATCGTGGAGGGAGACAGGGGATATCCCAGAGAAGGAAGGAAATACCCTTTGCCACCACCCTCAGGAAGATA
CAATTGGAATTAAGCTTTTGTAAAGCTTTCCCAAATCCTTTCATCATTCTACAGTTTTATGCTATTTGTGGAAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAAACTACAGTACTTTGTGTATTTCTTTTAACTGTGTATATTTCTAC
TGATCTGATCTCACTGTTTATGTTGCTTTCCAAAGATGTATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAAACCAGCTGTGGATTTC
AAAACACAGTGTATTCTAGATCATCTAAGATCCATGCTGATTTTTATTGCACAAGAATTAGGTTTGAACTCTTGA
GCTGGAACCTCAGCAAACTAGAGTATATATTGTTCAGTATTTCTTTGGAAACATTTCATTAATGTACTTGTCTTA
CAGAAATTTCTGAACTTTAGTAAAAAAAAATAAAGTTAAACTTTTAAAACTCAAAAAAAAAAAAAAAA
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FIGURE 1441

MGVPAFFRWLSRKYPSIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNED
EMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQQRSRRFRASKEGMEAAVEKQRVREEILAKGGFLPPEE
IKERFDSNCITPGTEFMDNLAKCLRYYIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT
HHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE
FIFLRLNVLREYLERELTMASLPFTFDVERSIDDWVFMCFFVGNDFLPHLPSLEIRENAIDRLVNIYKNVVHKTG
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDEDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPG
SQVASNPRQAAYEMRMQNNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYYKNKF
DVDAAADEKFRRKVVQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPSDFEKGTKPFKPLEQLMG
VFPAASGNFLPPSWRKLMSDPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYPDLTPEETR
RNSLGGDVLFVGKHHPLHDFILELYQTGSTEPVEVPPELCHGIQGKFSLDEEAILPDQIVCSPVPMLRDLTQNTV
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKPSDWEKSSNGRQWKPQLGFNRDRRPVHLDQAAFRTLGHVMPRG
SGTGIYSNAAPPPVTYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFDRGVGAEPLLPWNRMLQTQ
NAAFQPNQYQMLAGPGGYPPRRDDRGGRQGYPREGRKYPLPPPSGRYNWN

FIGURE 1442A

CGGGGCCGAGGCGGAGGAGCGGCCGCCGCGCCGGGGCCCAGCCGGAGCCGCCGCCCTCGCCCTTGCCTTTGCCTG
CGCGGCTCAGAATCACCATCCGCGGCGGGGAGACGAGCCGGCCGTCCCGGGCCGGGGGACCCGCCCGCC**ATG**GCC
ACCAAGGCTCGGGTTATGTATGATTTTGCTGCTGAACCTGGAAATAATGAACTGACGGTTAATGAAGGAGAAATC
ATCACAATCACAAATCCGGATGTAGGTGGAGGATGGCTGGAAGGAAGAAACATCAAAGGAGAACGAGGGCTGGTT
CCCACAGACTACGTTGAAATTTTACCCAGTGATGGAAAAGATCAATTTTCTTGTGGAAATTCAGTGGCTGACCAA
GCCTTCCTTGATTCTCTCTCAGCCAGCACAGCTCAGGCCAGTTCGTCGGCTGCCAGCAACAATCACCAGGTTGGC
AGTGGCAATGACCCCTGGTCAGCCTGGAGTGCCTCCAAATCTGGGAACTGGGAAAGCTCAGAAGGCTGGGGGGCC
CAGCCAGAGGGGGCTGGAGCCCAAAGAAACACAAACACTCCCAACAACTGGGACACTGCCTTCGGCCACCCCCAG
GCCTACCAAGGACCAGCAACTGGTGATGATGATGACTGGGATGAAGACTGGGATGGGCCCAAATCCTCTTCCTAC
TTTAAGGATTCAGAGTCAGCTGATGCAGGCGGCGCTCAGCGAGGAAACAGTCGTGCTAGTTCCTCATCCATGAAA
ATTCCCCTTAACAAATTTCCTGGATTTGCGAAACCTGGCACGGAACAGTATTTGTTGGCCAAACAACTAGCAAAA
CCCAAAGAGAAAATTCCCATCATTGTTGGAGATTATGGCCCAATGTGGGTTTATCCTACCTCTACTTTTGACTGT
GTGGTAGCAGATCCCAGGAAAGGCTCCAAAATGTATGGTCTAAAGAGCTACATCGAATATCAGCTAACACCTACT
AACACTAATCGATCTGTAAACCACAGGTATAAGCACTTTGACTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGG
TCAGCCATTCCAATCCCTTCTCTTCCAGACAAACAAGTCACAGGCCGCTTTGAAGAGGAATTTATCAAAATGCGC
ATGGAGAGACTTCAGGCCTGGATGACCAGGATGTGTCGCCATCCAGTAATCTCAGAAAGTGAAGTTTTCCAGCAG
TTCCTAAATTTCCGAGATGAGAAGGAATGGAAAACTGGAAAGAGGAAGGCCGAGAGAGATGAGCTGGCGGGAGTC
ATGATATTTTCCACCATGGAACCAGAGGCACCTGACTTGGACTTAGTAGAAATAGAGCAGAAGTGCGAGGCTGTG
GGGAAGTTCACCAAGGCCATGGATGACGGCGTGAAGGAGCTGCTGACGGTGGGGCAGGAGCACTGGAAGCGCTGC
ACGGGCCCATTACCCAAGGAATATCAGAAGATAGGAAAGGCCTTGCAGAGTTTGGCCACAGTGTTCAGTTCCAGT
GGCTATCAAGGTGAAACAGATCTCAATGATGCAATAACAGAAGCAGGAAAGACTTATGAAGAAATTGCCAGTCTC
GTGGCAGAACAGCCAAAGAAAGATCTCCATTTCCTGATGGAATGTAATCACGAGTATAAAGGTTTTCTTGGCTGC
TTCCCTGACATCATTGGCACTCACAAGGGAGCAATAGAAAAAGTGAAAGAAAGTGACAAACTAGTTGCAACAAGT
AAAATCACCCTACAAGACAAACAGAACATGGTGAAGAGAGTCAGCATCATGTCTTACGCGTTGCAAGCTGAGATG
AATCACTTTCACAGTAACCGGATCTATGATTACAACAGTGTCATCCGCCTGTACCTGGAGCAGCAAGTGCAATTT
TACGAAACGATTGCAGAAAAGCTGAGGCAGGCCCTCAGCCGCTTTCCAGTGATG**TAG**GACAGAACGGGCCTTGAA
GAGAATGCCGCGTGCTTTCTCCTGACTTGGGGCAATGCAATTCAAAACTTTTTTCCCCTATTATTCAGAAAAAAA
AGGAAACAAAACCAAAAGAAAGAGTTGCAAAAAACTGCATTTATTTTATTAGCCACCCTAAATGCGTCAGTTAT
TTAGGGATGGTCTTTTGTTCATTTCCGCATCCATTATTTAAACCAGTGGAAATTGTCTCTATTTTTGGAAAGTAC
TTAAAAGTTACCAGAATTTTCAATGGAAAATGAGGGGTTTCTCCCCACTGATATTTTACATAGAGTCATAATTTA
TATGTCTTATAAATTATAAGTCTTATATAATTTATAAGTCTCCCACAATCTTCCAGTTCTTACCCAGTGTCAGAT
AATTAATTACTAATTACTTTCTTAAAAACATGAACTATGCCAGAATAAAAAATATCTATGTTTGTATATTTTTAT
AACTCCTTTCAGTCCTCTGGGGCTCCTGTCATTGAGGGAAGTCGTTACGCCTTTCACTGCCACAGTTACAGCTCA
AGTGCTTACACTTCAAGAGGGAGGACGCTGGGGGCCCCTGGGGTGACTAGTGCCATCGTGGGTGTGTGGGCAGGT
GGGCCATCCCATGTCCCTCCAGGGGACCCCACAGCCTGGCAGATGAGCAGATACCCCTGGCCACCCATGTCCTCA
GCGACATTTCTGATGTGCTGCTCTTATGTGAGGACCAGTGCTTTCTCTCTTTGCACTTCCTTCCTAATCTTGGTT
AAGGCATGTTTTATGCCATGAAGAATACATTAGAAGAATTGAGGGACTTTGTAGAGAATTTTGTGGCTTTGGTCC
GACGGGTGAGTGGCTGTGCGGAGGCCTGTGTTCGGGAGGGCCTGGGGGAAGGAGGGCACCCAGCACCCCGGCGTC
TCTGGCCCTTTCTTATTCTTTGGCTCCTCATCCACCGTGATGAGAAGCGCTGCTGTGGCCACGGCACACTGCTTG
GCTTGGGTGGCGGGTTCATGGCCAGTTGGTGTCATCAGCAAAGAGAAAAAGCACAGGTTAGCTCCCCATTAGATG
GAAAAGTGTAGGGACTGAGAAGGGCTGCAGCCTCAGCAGTGTACAGAGTCCCCGGCGCTCTGAGGTTGGAGAGAA
AGAACAGACCAGCGCCCTTCCTGACTACATCCGAAACTTCACACAGGGTGTTTCTGAGCACCAGCACTTCCAGCG
CTTCACTTAACGGCATAAAGCAAACAGGACCTTGGCACACCGTCAGCTCGAACTCAACACTGGCAGCCACCGTC
TCACCCCTGCGGAGGAGCGCTCCCGTCTCCCACAGGTGCCTTACCGCGTTCCCTCCCGCTGCTTTCATTTTTCTG
ACCTTAATAATTACGGGAAATGGAAAGTCTGGGCCAGCATCAATAAAATGACACCAAAAATAAGTAGATGAAATC
AAATGAATATGAGAACATCTTGTTCTTCAATATCACGGGTTTTTGTTAATGTTTCATAAGTAATTCTCCCCACTT
GATTTTTCTTCTATAAAATCCCATAGAACAATGTTTATGCTATAGCCATTTAATATATGTACAAATTGTAAAGAA
TATGTATAAATGTTTTACACGAATGTAAGAGCATGTAGAAGCCAACATATAAATAAATTGTTTAAAAAAACTGTA

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FIGURE 1442B

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CAGTAAATTCTCAAATCACTTTTTCAAAACACTTTTTGGACTTTGTGTGTGATTTTTGTTGTTGTTGTTAAGTAC
TTTTTATTCCAGCTGCTGAAAATGGTCCAGGTAATGAATTCTTCCCCAAATCCTATTTCTTCTGACATGAATTCA
TCATTTCAGTTCCGTAGGTCAAGTGTTGCGGTCCGGGAAGCGTATCATAACCACCTGGGAAGTTGCCAATGAAGC
AGACAAGTCTCCCAGTGTCTGACTCTCGGATATTTGGATTTGACTGGTGTGAGGCAAAGTGAAAAAGGGATGGGG
GAAATGGAGATGGCACGGGCTCCTCAGAGCGTGGTAGCCGACTTGAGGAAAAGCAGAGGGAATGTGAAAGAAAAT
AAGAGAATCCACGGGATTTGATGCCTGGAAGATTCTCCTTCAAGTGGCAACATGGCATATATATCCTTCTCCGGG
GAGTCACATGCACCATTTGGTTCTTAGATACGTTGATGTTTTGATTTTTAATGATTTGTATCAACCTGTAGGTAC
CACAGAAGAGCTGTAGTCATACAATCACATAACTTTTACAAATATAGTGG
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FIGURE 1443

MATKARVMYDFAAEPGNNELTVNEGEIITITNPDVGGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSCGNSVA
DQAFLDSLSASTAQASSSAASNNHQVGSGNDPWSAWSASKSGNWESSEGWGAQPEGAGAQRNTNTPNNWDTAFGH
PQAYQGPATGDDDDWDEDWDGPKSSSYFKDSESADAGGAQRGNSRASSSSMKIPLNKFPGFAKPGTEQYLLAKQL
AKPKEKIPIIVGDYGPMWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTNRSVNHRYKHFDWLYERLLVK
FGSAIPIPSLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEKEWKTGKRKAERDELA
GVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVGQEHWKRCTGPLPKEYQKIGKALQSLATVFS
SSGYQGETDLNDAITEAGKTYEEIASLVAEQPKKDLHFLMECNHEYKGFLGCFPDIIGTHKGAIEKVKESDKLVA
TSKITLQDKQNMVKRVSIMSYALQAEMNHFHSNRIYDYNSVIRLYLEQQVQFYETIAEKLRQALSRFPVM

FIGURE 1444A

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CGGGGCCGAGGCGGAGGAGCGGCCGCCGCGCCGGGGCCCAGCCGGAGCCGCCGCCCTCGCCCTTGCCTTTGCCTG
CGCGGCTCAGAATCACCATCCGCGGCGGGGAGACGAGCCGGCCGTCCCGGGCCGGGGGACCCGCCCGCCATGGCC
ACCAAGGCTCGGGTTATGTATGATTTTGCTGCTGAACCTGGAAATAATGAACTGACGGTTAATGAAGGAGAAATC
ATCACAATCACAAATCCGGATGTAGGTGGAGGATGGCTGGAAGGAAGAAACATCAAAGGAGAACGAGGGCTGGTT
CCCACAGACTACGTTGAAATTTTACCCAGTGATGGAAAAGATCAATTTTCTTGTGGAAATTCAGTGGCTGACCAA
GCCTTCCTTGATTCTCTCTCAGCCAGCACAGCTCAGGCCAGTTCGTCGGCTGCCAGCAACAATCACCAGGTTGGC
AGTGGCAATGACCCCTGGTCAGCCTGGAGTGCCTCCAAATCTGGGAACTGGGAAAGCTCAGAAGGCTGGGGGGCC
CAGCCAGAGGGGGCTGGAGCCCAAAGAAACACAAACACTCCCAACAACTGGGACACTGCCTTCGGCCACCCCCAG
GCCTACCAAGGACCAGCAACTGGTGATGATGATGACTGGGATGAAGACTGGGATGGGCCCAAATCCTCTTCCTAC
TTTAAGGATTCAGAGTCAGCTGATGCAGGCGGCGCTCAGCGAGGAAACAGTCGTGCTAGTTCCTCATCCATGAAA
ATTCCCCTTAACAAATTTCCTGGATTTGCGAAACCTGGCACGGAACAGTATTTGTTGGCCAAACAACTAGCAAAA
CCCAAAGAGAAAATTCCCATCATTGTTGGAGATTATGGCCCAATGTGGGTTTATCCTACCTCTACTTTTGACTGT
GTGGTAGCAGATCCCAGGAAAGGCTCCAAAATGTATGGTCTAAAGAGCTACATCGAATATCAGCTAACACCTACT
AACACTAATCGATCTGTAAACCACAGGTATAAGCACTTTGACTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGG
TCAGCCATTCCAATCCCTTCTCTTCCAGACAAACAAGTCACAGGCCGCTTTGAAGAGGAATTTATCAAAATGCGC
ATGGAGAGACTTCAGGCCTGGATGACCAGGATGTGTCGCCATCCAGTAATCTCAGAAAGTGAAGTTTTCCAGCAG
TTCCTAAATTTCCGAGATGAGAAGGAATGGAAAACTGGAAAGAGGAAGGCCGAGAGAGATGAGCTGGCGGGAGTC
ATGATATTTTCCACCATGGAACCAGAGGCACCTGACTTGGACTTAGTAGAAATAGAGCAGAAGTGCGAGGCTGTG
GGGAAGTTCACCAAGGCCATGGATGACGGCGTGAAGGAGCTGCTGACGGTGGGGCAGGAGCACTGGAAGCGCTGC
ACGGGCCCATTACCCAAGGAATATCAGAAGATAGGAAAGGCCTTGCAGAGTTTGGCCACAGTGTTCAGTTCCAGT
GGCTATCAAGGTGAAACAGATCTCAATGATGCAATAACAGAAGCAGGAAAGACTTATGAAGAAATTGCCAGTCTC
GTGGCAGAACAGCCAAAGAAAGATCTCCATTTCCTGATGGAATGTAATCACGAGTATAAAGGTTTTCTTGGCTGC
TTCCCTGACATCATTGGCACTCACAAGGGAGCAATAGAAAAAGTGAAAGAAAGTGACAAACTAGTTGCAACAAGT
AAAATCACCCTACAAGACAAACAGAACATGGTGAAGAGAGTCAGCATCATGTCTTACGCGTTGCAAGCTGAGATG
AATCACTTTCACAGTAACCGGATCTATGATTACAACAGTGTCATCCGCCTGTACCTGGAGCAGCAAGTGCAATTT
TACGAAACGATTGCAGAAAAGCTGAGGCAGGCCCTCAGCCGCTTTCCAGTGATGTAGGACAGAACGGGCCTTGAA
GAGAATGCCGCGTGCTTTCTCCTGACTTGGGGCAATGCAATTCAAAACTTTTTTCCCCTATTATTCAGAAAAAAA
AGGAAACAAAACCAAAAAGAAAGAGTTGCAAAAAACTGCATTTATTTTATTAGCCACCCTAAATGCGTCAGTTAT
TTAGGGATGGTCTTTTGTTCATTTCCGCATCCATTATTTAAACCAGTGGAAATTGTCTCTATTTTTGGAAAGTAC
TTAAAAGTTACCAGAATTTTCAATGGAAAATGAGGGGTTTCTCCCCACTGATATTTTACATAGAGTCATAATTTA
TATGTCTTATAAATTATAAGTCTTATATAATTTATAAGTCTCCCACAATCTTCCAGTTCTTACCCAGTGTCAGAT
AATTAATTACTAATTACTTTCTTAAAAACATGAACTATGCCAGAATAAAAAATATCTATGTTTGTATATTTTTAT
AACTCCTTTCAGTCCTCTGGGGCTCCTGTCATTGAGGGAAGTCGTTACGCCTTTCACTGCCACAGTTACAGCTCA
AGTGCTTACACTTCAAGAGGGAGGACGCTGGGGGCCCCTGGGGTGACTAGTGCCATCGTGGGTGTGTGGGCAGGT
GGGCCATCCCATGTCCCTCCAGGGGACCCCACAGCCTGGCAGATGAGCAGATACCCCTGGCCACCCATGTCCTCA
GCGACATTTCTGATGTGCTGCTCTTATGTGAGGACCAGTGCTTTCTCTCTTTGCACTTCCTTCCTAATCTTGGTT
AAGGCATGTTTTATGCCATGAAGAATACATTAGAAGAATTGAGGGACTTTGTAGAGAATTTTGTGGCTTTGGTCC
GACGGGTGAGTGGCTGTGCGGAGGCCTGTGTTCGGGAGGGCCTGGGGGAAGGAGGGCACCCAGCACCCCGGCGTC
TCTGGCCCTTTCTTATTCTTTGGCTCCTCATCCACCGTGATGAGAAGCGCTGCTGTGGCCACGGCACACTGCTTG
GCTTGGGTGGCGGGTTCATGGCCAGTTGGTGTCATCAGCAAAGAGAAAAAGCACAGGTTAGCTCCCCATTAGATG
GAAAAGTGTAGGGACTGAGAAGGGCTGCAGCCTCAGCAGTGTACAGAGTCCCCGGCGCTCTGAGGTTGGAGAGAA
AGAACAGACCAGCGCCCTTCCTGACTACATCCGAAACTTCACACAGGGTGTTTCTGAGCACCAGCACTTCCAGCG
CTTCACTTAACGGCATAAAGCAAAACAGGACCTTGGCACACCGTCAGCTCGAACTCAACACTGGCAGCCACCGTC
TCACCCCTGCGGAGGAGCGCTCCCGTCTCCCACAGGTGCCTTACCGCGTTCCCTCCCGCTGCTTTCATTTTTCTG
ACCTTAATAATTACGGGAAATGGAAAGTCTGGGCCAGCATCAATAAAATGACACCAAAAATAAGTAGATGAAATC
AAATGAATATGAGAACATCTTGTTCTTCAATATCACGGGTTTTTGTTAATGTTTCATAAGTAATTCTCCCCACTT
GATTTTTCTTCTATAAAATCCCATAGAACAATGTTTATGCTATAGCCATTTAATATATGTACAAATTGTAAAGAA
TATGTATAAATGTTTTACACGAATGTAAGAGCATGTAGAAGCCAACATATAAATAAATTGTTTAAAAAAACTGTA
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FIGURE 1444B

CAGTAAATTCTCAAATCACTTTTTCAAAACACTTTTTGGACTTTGTGTGTGATTTTTGTTGTTGTTGTTAAGTAC
TTTTTATTCCAGCTGCTGAAAATGGTCCAGGTAATGAATTCTTCCCCAAATCCTATTTCTTCTGACATGAATTCA
TCATTTCAGTTCCGTAGGTCAAGTGTTGCGGTCCGGGAAGCGTATCATAACCACCTGGGAAGTTGCCAATGAAGC
AGACAAGTCTCCCAGTGTCTGACTCTCGGATATTTGGATTTGACTGGTGTGAGGCAAAGTGAAAAAGGGATGGGG
GAAATGGAGATGGCACGGGCTCCTCAGAGCGTGGTAGCCGACTTGAGGAAAAGCAGAGGGAATGTGAAAGAAAAT
AAGAGAATCCACGGGATTTGATGCCTGGAAGATTCTCCTTCAAGTGGCAACATGGCATATATATCCTTCTCCGGG
GAGTCACATGCACCATTTGGTTCTTAGATACGTTGATGTTTTGATTTTTAATGATTTGTATCAACCTGTAGGTAC
CACAGAAGAGCTGTAGTCATACAATCACATAACTTTTACAAATATAGTGG

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FIGURE 1445

MATKARVMYDFAAEPGNNELTVNEGEIITITNPDVGGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSCGNSVA
DQAFLDSLSASTAQASSSAASNNHQVGSGNDPWSAWSASKSGNWESSEGWGAQPEGAGAQRNTNTPNNWDTAFGH
PQAYQGPATGDDDDWDEDWDGPKSSSYFKDSESADAGGAQRGNSRASSSSMKIPLNKFPGFAKPGTEQYLLAKQL
AKPKEKIPIIVGDYGPMWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTNRSVNHRYKHFDWLYERLLVK
FGSAIPIPSLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEKEWKTGKRKAERDELA
GVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVGQEHWKRCTGPLPKEYQKIGKALQSLATVFS
SSGYQGETDLNDAITEAGKTYEEIASLVAEQPKKDLHFLMECNHEYKGFLGCFPDIIGTHKGAIEKVKESDKLVA
TSKITLQDKQNMVKRVSIMSYALQAEMNHFHSNRIYDYNSVIRLYLEQQVQFYETIAEKLRQALSRFPVM

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FIGURE 1446

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AGTTCGACACACCATGCCGACTGTCAGCGTGAAGCGTGATCTGCTCTTCCAAGCCCTGGGCCGCACCTACACTGA
CGAAGAATTTGATGAACTATGTTTTGAATTTGGTCTGGAGCTTGATGAAATTACATCTGAGAAGGAAATAATAAG
TAAAGAACAAGGTAATGTAAAGGCAGCAGGAGCCTCTGATGTTGTTCTTTACAAAATTGACGTCCCTGCCAATAG
ATATGATCTCCTGTGTCTGGAAGGATTGGTTCGAGGACTTCAGGTCTTCAAAGAAAGGATAAAGGCTCCAGTGTA
TAAACGGGTAATGCCTGATGGAAAAATCCAGAAATTGATTATCACAGAAGAGACAGCTAAGATACGTCCTTTTGC
GGTAGCAGCAGTTCTCCGTAATATAAAGTTTACTAAAGATCGATATGACAGCTTCATTGAACTTCAGGAGAAATT
ACATCAGAATATTTGCAGGAAAAGAGCACTGGTTGCCATTGGTACCCATGATTTGGACACTTTGTCGGGCCCATT
TACTTATACTGCAAAGCGTCCTTCAGATATCAAATTCAAGCCTCTAAATAAGACCAAGGAGTATACAGCCTGTGA
ACTGATGAACATATACAAGACTGACAATCACCTGAAACATTATTTACATATCATTGAAAACAAACCCCTGTATCC
AGTTATCTATGATAGCAATGGTGTCGTCCTTTCAATGCCTCCCATCATCAATGGGGATCATTCCAGAATAACAGT
AAATACTAGAAATATTTTTATTGAATGCACGGGAACTGACTTTACTAAGGCAAAAATAGTTCTTGATATTATTGT
CACCATGTTCAGTGAATATTGTGAGAATCAATTTACGGTCGAAGCTGCTGAAGTGGTTTTTCCTAATGGAAAATC
ACATACCTTTCCAGAATTAGCTTACCGAAAGGAGATGGTGAGAGCTGACCTAATTAACAAAAAAGTTGGAATCAG
AGAAACTCCAGAAAATCTTGCCAAACTTCTGACCAGGATGTATTTAAAATCAGAAGTCATAGGTGATGGGAATCA
GATTGAGATTGAAATCCCTCCAACCAGAGCTGACATTATCCATGCATGTGATATTGTAGAAGATGCAGCTATTGC
TTATGGATATAACAACATTCAGATGACTCTCCCGAAAACTTACACCATAGCTAATCAATTCCTCTTAATAAGCT
CACTGAACTTCTCCGACATGACATGGCAGCCGCTGGCTTCACTGAAGCACTTACCTTTGCCCTGTGCTCCCAAGA
AGATATTGCTGATAAACTAGGTGTGGATATCTCTGCAACAAAGGCAGTCCACATAAGTAATCCTAAAACAGCTGA
ATTTCAGGTGGCACGCACTACCCTTCTTCCTGGCCTCCTGAAGACCATAGCAGCAAATCGTAAGATGCCCCTTCC
ACTGAAACTGTTTGAAATCTCTGACATTGTAATAAAAGATTCTAATACAGATGTAGGTGCAAAAAAACTACAGACA
TCTCTGTGCTGTTTATTACAACAAGAATCCTGGGTTTGAGATCATTCATGGGCTGCTGGACAGAATTATGCAGTT
GCTCGATGTGCCTCCTGGTGAAGACAAGGGGGGATATGTGATCAAAGCATCAGAAGGGCCTGCTTTCTTCCCCGG
GCGATGTGCAGAGATCTTTGCCAGGGTTCAAAGCGTCGGGAAGCTTGGGGTCCTTCATCCTGACGTTATCACCAA
ATTTGAGCTGACCATGCCCTGCTCCTCCCTAGAAATCAATATTGGACCCTTTTTGTGAAGATTGGTCTCTGTGGT
GTGATTCTCTTCCCAGGTGTCCCTTTCTCCTCCCCTAGTGTCCTTAAGTCCTCCTCCACAGGGAACATCTATTTG
GGCTTTGATGTTTAATAAAGTAGAAAGCACTGTCTGGCTGTGTGGGTAGAGACCATCCTTTCCCTGCATATTAGG
CCAGCTTGTGCCATATACCAGTGTGGTGTCTGTGTGTGAAGCTGCATTGTTGGGTAAAAGCCCCGTGGAGTGCTG
GAGAAATGCACTAGCAGAGTGCAGGATCTGTTCTGAAAGGCAGACGTGCTCCTCAGACATCAGAACATCACATTG
GAACGGATTACTCCTGCATAACAAGATCCCATTTCTTTCCTTATTGATAAAACAAGATAATCGATGAGAATTCAT
GTTGCATGAGTTCGAGATAACTGAGGGGTTTAGCTTTGATTTTCTACATTTGACATGTATTCATCATTGAGAAAC
ACTAAAATAACAATATTTTTAGAAAACGTTTAAGAATCAATTATGGTCCAACAATTATAGCTTCTGAGGTCAGTT
TAAAGTGAAAGAAAAATCTGTAATACAAGGATTCAAAATATGTGAGGGTGCATAGGTATTTTTTACTCTATCTGT
GATACTCTAAGATAGAGTACATGCAACAAAGATCTGTTCTGCTGTAAGAGTTAAAATGGACAAGTATTGATATCA
ATGCAGTATGAACATTAGGAAACAATGAGAAGCTTATTTTTGCCATAGGCCATACATGTTACTGTAATCAGTCAG
TTATAAAATCATGGTTTAAATACTTAATTGAGCTACTAGTTTCTCTATTGTCCCAGGGAGATATTAGACCTCTC
TTTTTCTGAAGCTAAGCTTCAGCCAATCCTCCTTGTTTTATATCCTAATTTCCTTTCTTACTTCAATCTAGAATT
CTCCAGTAGGTACCATCTCTGGAAAAAAGCTGGGTCTCATGTTTGAGACAAGTTCCCAGGTACTATTGAAGTAAT
AAGAAATATGATAAAATATAATACTTTAAAGTCCCAGTAGAAATAGCTAACAAAGGCTGGGTGCGCTGTGGCTCA
TGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGTGGGCAGATCACTTGAGGCCAATAGTTCGAGATCAGCCTGAC
CAACATGATGAAATGCCATCTCCACTAAAAATATAAAAATTAGCCAGGCATGGTGGTGTGGGCCTGCAGTCCCAG
CTACCTGGGAGGCTGAGTCAGGAAAATCTCTTGAACCAGGAGGTGGACGTTGCAGTGATCCCAGATTGTGCCACT
GCCCTCCAGCCTGGGTGACAGAGTGAGATTCTGTCTACAAAAA
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FIGURE 1447

MPTVSVKRDLLFQALGRTYTDEEFDELCFEFGLELDEITSEKEIISKEQGNVKAAGASDVVLYKIDVPANRYDLL
CLEGLVRGLQVFKERIKAPVYKRVMPDGKIQKLIITEETAKIRPFAVAAVLRNIKFTKDRYDSFIELQEKLHQNI
CRKRALVAIGTHDLDTLSGPFTYTAKRPSDIKFKPLNKTKEYTACELMNIYKTDNHLKHYLHIIENKPLYPVIYD
SNGVVLSMPPIINGDHSRITVNTRNIFIECTGTDFTKAKIVLDIIVTMFSEYCENQFTVEAAEVVFPNGKSHTFP
ELAYRKEMVRADLINKKVGIRETPENLAKLLTRMYLKSEVIGDGNQIEIEIPPTRADIIHACDIVEDAAIAYGYN
NIQMTLPKTYTIANQFPLNKLTELLRHDMAAAGFTEALTFALCSQEDIADKLGVDISATKAVHISNPKTAEFQVA
RTTLLPGLLKTIAANRKMPLPLKLFEISDIVIKDSNTDVGAKNYRHLCAVYYNKNPGFEIIHGLLDRIMQLLDVP
PGEDKGGYVIKASEGPAFFPGRCAEIFARVQSVGKLGVLHPDVITKFELTMPCSSLEINIGPFL

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FIGURE 1448

GCTCCGGGAGACTTCCGGCAGGGCGGGCGCGGGGTCTTGGCGAACGGTCTTCGGAAGCGGCGGCGGCGCG**ATG**AC
CACGCTACGGGCCTTTACCTGCGACGACCTGTTCCGCTTCAACAACATTAACTTGGATCCACTTACAGAAACTTA
TGGGATTCCTTTCTACCTACAATACCTCGCCCACTGGCCAGAGTATTTCATTGTTGCAGAGGCACCTGGTGGAGA
ATTAATGGGTTATATTATGGGTAAAGCAGAAGGCTCAGTAGCTAGGGAAGAATGGCACGGGCACGTCACAGCTCT
GTCTGTTGCCCCAGAATTTCGACGCCTTGGTTTGGCTGCTAAACTTATGGAGTTACTAGAGGAGATTTCAGAAAG
AAAGGGTGGATTTTTTGTGGATCTCTTTGTAAGAGTATCTAACCAAGTTGCAGTTAACATGTACAAGCAGTTGGG
CTACAGTGTATATAGGACGGTCATAGAGTACTATTCGGCCAGCAACGGGGAGCCTGATGAGGACGCTTATGATAT
GAGGAAAGCACTTTCCAGGGATACTGAGAAGAAATCCATCATACCATTACCTCATCCTGTGAGGCCTGAAGACAT
TGAA**TAA**CCCTGGGCAGTGGTTCTTAGGCAGATACTCTAGATGCTTTATGGACAATATTATTTTCATTGGATGAT
TCTGGAGCTCTATTAGGAGAAAAGTAATCATTTTAGGTCTTAAAGACTTCAAGAAAATACAGGTTATCAATTTAT
TTTAAATCTCATTGTTTCCAGTTAGCAATATCATACCTATTAAAGCTGTTCATTGTAACAAAATTCAATCAAAAA
GGCAGCTAGGTCAGAAGGAAACATACCACTCTCATGGTTCATAGTATTCACTGTATGTATGCTAGGGAAAAGACT
TGCTCCAGTCTCCTCCTCAGTTCTGTGCCTGAGAACCACTGCTGCATATATTTGTTTTTAAATTTTGTATTGAAC
TGTTAATTGAAGCTTTAAAAGCATATATGAAATGTATAAATCTAAGATGTATAATACATTATTGACTCTAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1449

MTTLRAFTCDDLFRFNNINLDPLTETYGIPFYLQYLAHWPEYFIVAEAPGGELMGYIMGKAEGSVAREEWHGHVT
ALSVAPEFRRLGLAAKLMELLEEISERKGGFFVDLFVRVSNQVAVNMYKQLGYSVYRTVIEYYSASNGEPDEDAY
DMRKALSRDTEKKSIIPLPHPVRPEDIE

FIGURE 1450

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ACGCGTCCGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGC
TTTGCCTTTCCAACTTCAGCTACAGTGTTAGCTAAGTTTGGAAAGAAGGAAAAAAGAAAATCCCTGGGCCCCTTT
TCTTTTGTTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCAAGGCTGTTGTGTTTTTAGAGGTGCTATCTCC
AGTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGCAGAAGAGCCAGCGG
GGTCGCCTAGTGTCATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACC
TGACCTCTGCAAAATTCCTTCTCTACCTTGGTCATTCTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTGCGG
TGTCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT
CTGTTCTGGTCCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCCAGACCTCGC
TGGTGGTACAGAATGTTTCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCTTC
TGACCATGTACCATGGATGGGTTCTCACTTCCTGCTATATCCTGATCATCACTATTGCAAATATTGCAAATTTGG
CCAGTACTGCTACTGCAATCACAATCCAAAGGGATTGGATTGTTGTTGTTGCAGGAGAAGACAGAAGCAAACTAG
CAAATATGAATGCCACAATACGAAGGATTGACCAGTTAACCAACATCTTAGCCCCCATGGCTGTTGGCCAGATTA
TGACATTTGGCTCCCCAGTCATCGGCTGTGGCTTTATTTCGGGATGGAACTTGGTATCCATGTGCGTGGAGTACG
TCCTGCTCTGGAAGGTTTACCAGAAAACCCCAGCTCTAGCTGTGAAAGCTGGTCTTAAAGAAGAGGAAACTGAAT
TGAAACAGCTGAATTTACACAAAGATACTGAGCCAAAACCCCTGGAGGGAACTCATCTAATGGGTGTGAAAGACT
CTAACATCCATGAGCTTGAACATGAGCAAGAGCCTACTTGTGCCTCCCAGATGGCTGAGCCCTTCCGTACCTTCC
GAGATGGATGGGTCTCCTACTACAACCAGCCTGTGTTTCTGGCTGGCATGGGTCTTGCTTTCCTTTATATGACTG
TCCTGGGCTTTGACTGCATCACCACAGGGTACGCCTACACTCAGGGACTGAGTGGTTCCATCCTCAGTATTTTGA
TGGGAGCATCAGCTATAACTGGAATAATGGGAACTGTAGCTTTTACTTGGCTACGTCGAAAATGTGGTTTGGTTC
GGACAGGTCTGATCTCAGGATTGGCACAGCTTTCCTGTTTGATCTTGTGTGTGATCTCTGTATTCATGCCTGGAA
GCCCCCTGGACTTGTCCGTTTCTCCTTTTGAAGATATCCGATCAAGGTTCATTCAAGGAGAGTCAATTACACCTA
CCAAGATACCTGAAATTACAACTGAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGGAGACAA
GTCCTGAATCTGTGCCCATAATCTCTGTCAGTCTGCTGTTTCAGGCGTCATTGCTGCTAGAATCGGTCTTTGGT
CCTTTGATTTAACTGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGTAC
AGAACTCCATGAACTATCTTCTTGATCTTCTGCATTTCATCATGGTCATCCTGGCTCCAAATCCTGAAGCTTTTG
GCTTGCTCGTATTGATTTCAGTCTCCTTTGTGGCAATGGGCCACATTATGTATTTCCGATTTGCCCAAAATACTC
TGGGAAACAAGCTCTTTGCTTGCGGTCCTGATGCAAAAGAAGTTAGGAAGGAAAATCAAGCAAATACATCTGTTG
TTTGAGACAGTTTAACTGTTGCTATCCTGTTACTAGATTATATAGAGCACATGTGCTTATTTTGTACTGCAGAAT
TCCAATAAATGGCTGGGTGTTTTGCTCTGTTTTTACCACAGCTGTGCCTTGAGAACTAAAAGCTGTTTAGGAAAC
CTAAGTCAGCAGAAATTAACTGATTAATTTCCCTTATGTTGAGGCATGGAAAAAAAATTGGAAAAGAAAAACTCA
GTTTAAATACGGAGACTATAATGATAACACTGAATTCCCCTATTTCTCATGAGTAGATACAATCTTACGTAAAAG
AGTGGTTAGTCACGTGAATTCAGTTATCATTTGACAGATTCTTATCTGTACTAGAATTCAGATATGTCAGTTTTC
TGCAAAACTCACTCTTGTTCAAGACTAGCTAATTTATTTTTTTGCATCTTAGTTATTTTTAAAAACAAATTCTTC
AAGTATGAAGACTAAATTTTGATAACTAATATTATCCTTATTGATCCTATTGATCTTAAGGTATTTACATGTATG
TGGAAAAACAAAACACTTAACTAGAATTCTCTAATAAGGTTTATGGTTTAGCTTAAAGAGCACCTTTGTATTTTT
ATTATCAGATGGGGCAACATATTGTATGAAGCATATGTAGCACTTCACAGCATGGTTATCATGTAAGCTGCAGGT
AGAAGCAAAGCTGTAAAGTAGATTTATCACACAATGACTGCATACAGACTTCAAATATGTCAATAGTTTGGTCAT
AGAACCTAGAAGCCAAAAGCCACACAGAAGGGCAAGAATCCCAATTTAACTCATGTTATCATCATTAGTGATCTG
TGTTGTAGAACATGAGGGTGTAAGCCTTCAGCCTGGCAAGTTACATGTAGAAAGCCCACACTTGTGAAGGTTTTG
TTTTACAAATCACTTGATTTAACACACTCAGGTAGAATATTTTTATTTTTACTGTTTTATACCCAGAAGTTATTT
CTACATTGTTCTACAGCAAGAATATTCATAAAAGTATCCCTTTCAAATGCCTTTGAGAAGAATAGAAGAAAAAAA
GTTTGTATATATTTTAAAAAATTGTTTTAAAAGTCAGTTTGCAACATGTCTGTACCAAGATGGTACTTTGCCTTA
ACCGTTTATATGCACTTTCATGGAGACTGCAATACGTTGCTATGAGCACTTTCTTTATCCTTGGAGTTTAATCCT
TTGCTTCATCTTTCTACAGTATGACATAATGATTTGCTATGTTGTAAAATCTTTGTAAAAAATTTCTATATAAAA
ATATTTTGAAAATCTTAAAAAAAAAAAAAAAAAA
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FIGURE 1451

MTRAGDHNRQRGCCGSLADYLTSAKFLLYLGHSLSTWGDRMWHFAVSVFLVELYGNSLLLTAVYGLVVAGSVLVL
GAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWVLTSCYILIITIANIANLASTAT
AITIQRDWIVVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWK
VYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTFRDGWV
SYYNQPVFLAGMGLAFLYMTVLGFDCITTGYAYTQGLSGSILSILMGASAITGIMGTVAFTWLRRKCGLVRTGLI
SGLAQLSCLILCVISVFMPGSPLDLSVSPFEDIRSRFIQGESITPTKIPEITTEIYMSNGSNSANIVPETSPESV
PIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVL
ISVSFVAMGHIMYFRFAQNTLGNKLFACGPDAKEVRKENQANTSVV

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FIGURE 1452

GGAACAAAAGCTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGG
CACGAGCAGAAGAGGGGGCTAGCTAGCTGTCTCTGCGGACCAGGGGAGACCCCGCGCCCCCCCGGTGTGAGGCGG
CCTCACAGGGCCGGGTGGGCTGGCGAGCCGACGCGGCGGCGGAGGAGGCTGTGAGGAGTGTGTGGAACAGGACCC
GGGACAGAGGAACC**ATG**GCTCCGCAGAACCTGAGCACCTTTTGCCTGTTGCTGCTATACCTCATCGGGGCGGTGA
TTGCCGGACGAGATTTCTATAAGATCTTGGGGGTGCCTCGAAGTGCCTCTATAAAGGATATTAAAAAGGCCTATA
GGAAACTAGCCCTGCAGCTTCATCCCGACCGGAACCCTGATGATCCACAAGCCCAGGAGAAATTCCAGGATCTGG
GTGCTGCTTATGAGGTTCTGTCAGATAGTGAGAAACGGAAACAGTACGATACTTATGGTGAAGAAGGATTAAAAG
ATGGTCATCAGAGCTCCCATGGAGACATTTTTTCACACTTCTTTGGGGATTTTGGTTTCATGTTTGGAGGAACCC
CTCGTCAGCAAGACAGAAATATTCCAAGAGGAAGTGATATTATTGTAGATCTAGAAGTCACTTTGGAAGAAGTAT
ATGCAGGAAATTTTGTGGAAGTAGTTAGAAACAAACCTGTGGCAAGGCAGGCTCCTGGCAAACGGAAGTGCAATT
GTCGGCAAGAGATGCGGACCACCCAGCTGGGCCCTGGGCGCTTCCAAATGACCCAGGAGGTGGTCTGCGACGAAT
GCCCTAATGTCAAACTAGTGAATGAAGAACGAACGCTGGAAGTAGAAATAGAGCCTGGGGTGAGAGACGGCATGG
AGTACCCCTTTATTGGAGAAGGTGAGCCTCACGTGGATGGGGAGCCTGGAGATTTACGGTTCCGAATCAAAGTTG
TCAAGCACCCAATATTTGAAAGGAGAGGAGATGATTTGTACACAAATGTGACAATCTCATTAGTTGAGTCACTGG
TTGGCTTTGAGATGGATATTACTCACTTGGATGGTCACAAGGTACATATTTCCCGGGATAAGATCACCAGGCCAG
GAGCGAAGCTATGGAAGAAAGGGGAAGGGCTCCCCAACTTTGACAACAACAATATCAAGGGCTCTTTGATAATCA
CTTTTGATGTGGATTTTCCAAAAGAACAGTTAACAGAGGAAGCGAGAGAAGGTATCAAACAGCTACTGAAACAAG
GGTCAGTGCAGAAGGTATACAATGGACTGCAAGGATAT**TGA**GAGTGAATAAAATTGGACTTTGTTTAAAATAAGT
GAATAAGCGATATTTATTATCTGCAAGGTTTTTTTGTGTGTGTTTTTGTTTTTATTTTCAATATGCAAGTTAGGC
TTAATTTTTTTATCTAATGATCATCATGAAATGAATAAGAGGGCTTAAGAATTTGTCCATTTGCATTCGGAAAAG
AATGACCAGCAAAAGGTTTACTAATACGTCTCCCTTTGGGGATTTAATGTCTGGTGCTGCCGCCTGAGTTTCAAG
AATTAAAGCTGCAAGAGGACTCCAGGAGCAAAAGAAACACAATATAGAGGGTTGGAGTTGTTAGCAATTTCATTC
AAAATGCCAACTGGAGAAGTCTGTTTTTAAATACATTTTGTTGTTATTTTT

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FIGURE 1453

MAPQNLSTFCLLLLYLIGAVIAGRDFYKILGVPRSASIKDIKKAYRKLALQLHPDRNPDDPQAQEKFQDLGAAYE
VLSDSEKRKQYDTYGEEGLKDGHQSSHGDIFSHFFGDFGFMFGGTPRQQDRNIPRGSDIIVDLEVTLEEVYAGNF
VEVVRNKPVARQAPGKRKCNCRQEMRTTQLGPGRFQMTQEVVCDECPNVKLVNEERTLEVEIEPGVRDGMEYPFI
GEGEPHVDGEPGDLRFRIKVVKHPIFERRGDDLYTNVTISLVESLVGFEMDITHLDGHKVHISRDKITRPGAKLW
KKGEGLPNFDNNNIKGSLIITFDVDFPKEQLTEEAREGIKQLLKQGSVQKVYNGLQGY

FIGURE 1454A

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GCGCGAGTTGCTGCTAACGCTCCTCCTCCAGCTTCCCACCCCCGCCGCCCGCCGCGGCCCGGTACCAACGGGTGG
TCTCGCCGAGGGAGCTGTCGTGCCTCGTGGTCCCGGGACTGCAGTGGTGTGCGCTCTCGGCGCGTGGCGCTAGGC
ATGGCGATGGATCAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGGTGACGGTCATGATGGACCCCAACTCC
ACCCAGCGCTACCGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTTAAAGAAAAGTGTCCTATCTGTGTCCCCTGT
GGCTTGAGGTTGGCTGAGAAAACACAAGTTGCCATCGTCAGACATTTTGGCCTTCAGATCCTGGAACACGTTGTC
AAGTTTCGGTGGAACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGAACAGTGTCATGGAGCTGATTGCAAAT
GGAACATTGAACATTTTGGAAGAGGAGAACCATATTAAAGATGCTCTGTCTCGAATTGTAGTGGAAATGATCAAG
CGAGAGTGGCCACAGCATTGGCCTGACATGCTAATAGAATTGGACACTCTTTCCAAACAAGGGGAAACACAGACA
GAATTGGTGATGTTTATCCTTTTGCGACTGGCAGAGGATGTAGTGACTTTTCAGACACTTCCCCCTCAAAGAAGA
AGGGACATCCAGCAAACATTAACCCAGAACATGGAAAGGATCTTCAGTTTTCTGCTTAACACACTTCAAGAAAAT
GTAAACAAGTATCAGCAAGTGAAGACAGATACTTCTCAGGAGTCAAAGGCGCAAGCAAACTGTCGAGTAGGAGTT
GCAGCACTGAATACTCTAGCAGGCTATATTGACTGGGTGTCTATGAGTCACATCACTGCTGAAAACTGTAAACTC
CTGGAGATACTGTGTTTGCTGTTGAATGAACAGGAACTTCAGTTGGGAGCCGCTGAGTGTCTTCTCATTGCAGTC
AGCAGAAAAGGCAAGTTGGAAGACCGGAAGCCCTTGATGGTCTTATTTGGAGATGTTGCCATGCATTATATACTC
TCCGCCGCACAGACTGCTGATGGAGGAGGTTTGGTAGAAAAAACACTACGTCTTTCTGAAGAGGCTCTGTCAGGTG
TTGTGTGCGCTGGGCAATCAGCTGTGTGCATTGCTGGGTGCAGATTCTGATGTAGAAACACCATCAAACTTTGGA
AAATACCTGGAATCTTTTCTTGCTTTCACAACCCATCCAAGTCAGTTTCTACGCTCTTCAACTCAGATGACTTGG
GGAGCCCTCTTCAGGCATGAAATCCTGTCCCGTGATCCTTTGCTATTAGCAATAATACCAAAATATCTTCGTGCT
TCCATGACTAACTTGGTCAAGATGGGCTTTCCTTCTAAAACAGACAGCCCTAGCTGTGAATATTCTCGGTTTGAT
TTTGATAGCGATGAGGACTTCAATGCTTTCTTCAACTCCTCCCGAGCACAACAAGGAGAGGTGATGAGGTTGGCA
TGTCGTTTGGATCCCAAAACTAGCTTCCAGATGGCTGGGGAGTGGCTAAAGTATCAACTATCAACTTTTCTTGAT
GCTGGTTCTGTGAATTCTTGTTCTGCAGTTGGAACTGGAGAAGGAAGCCTCTGTTCCGTCTTCTCACCTTCATTC
GTGCAGTGGGAAGCCATGACTCTTTTTTTGGAAAGTGTTATCACCCAGATGTTTCGAACACTAAATAGAGAAGAA
ATTCCTGTTAATGATGGAATAGAGCTATTGCAGATGGTTCTGAACTTTGATACCAAGGATCCCCTCATCCTGTCC
TGCGTCCTTACTAATGTCTCTGCACTCTTTCCATTTGTCACCTACAGACCAGAGTTCCTGCCCCAGGTCTTCTCT
AAGCTATTTTCATCTGTCACTTTTGAAACTGTTGAAGAAAGTAAGGCCCCCAGAACCCGGGCAGTGAGGAATGTG
AGGAGGCATGCTTGTTCCTCCATCATCAAGATGTGTCGTGACTACCCCCAGCTTGTGCTGCCCAATTTTGACATG
CTTTATAACCATGTGAAGCAACTCCTCTCCAATGAGCTACTCCTGACACAAATGGAGAAGTGTGCCCTCATGGAA
GCCCTGGTTCTCATTAGCAACCAATTTAAGAACTACGAGCGTCAGAAGGTGTTCCTAGAGGAGCTGATGGCACCA
GTGGCCAGCATCTGGCTTTCTCAAGACATGCACAGAGTGCTGTCAGATGTTGATGCTTTCATTGTGTATGTGGGT
ACAGATCAGAAGAGCTGTGACCCAGGCCTGGAGGATCCGTGTGGCTTAAACCGTGCACGAATGAGCTTTTGTGTA
TACAGCATTCTGGGTGTGGTGAAACGAACTTGCTGGCCCACTGACCTAGAAGAGGCCAAAGCTGGGGGATTTGTG
GTGGGTTATACATCCAGTGGAAATCCAATCTTCCGTAACCCCTGCACAGAGCAGATTCTGAAACTTCTTGACAAT
TTGCTTGCGCTTATAAGAACCCACAATACATTATATGCACCAGAAATGCTAGCCAAAATGGCAGAGCCTTTCACC
AAGGCTCTGGATATGCTTGACGCGGAAAAATCTGCTATATTAGGATTACCTCAACCTCTCTTGGAACTCAATGAC
TCTCCTGTCTTCAAAACCGTCTTGGAAAGAATGCAGCGTTTCTTCTCTACCCTCTATGAAAACTGTTTTCATATC
CTAGGGAAGGCAGGCCCTTCCATGCAGCAAGACTTCTATACTGTGGAGGACCTTGCTACCCAGCTTCTCAGCTCA
GCCTTTGTCAACTTGAACAATATTCCTGACTACCGACTCAGACCCATGCTTCGTGTCTTTGTAAAGCCTCTGGTG
CTCTTCTGTCCCCCAGAGCACTATGAAGCCCTGGTATCCCCCATCCTCGGACCTCTTTTCACCTACCTCCATATG
AGGCTTTCTCAGAAATGGCAAGTTATCAACCAAAGGAGCCTGCTGTGTGGAGAAGATGAGGCTGCAGATGAAAAC
CCAGAGTCTCAAGAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACCCGAGAAGTCATGGACCTAATCACGGTT
TGCTGTGTTTCAAAGAAGGGTGCTGACCACAGTAGTGCTCCCCCAGCAGATGGAGACGATGAAGAAATGATGGCC
ACAGAGGTCACCCCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAAATGTCTGATGAAGCATGAGGATGTTTGT
ACAGCGCTATTAATTACAGCCTTCAATTCCCTGGCCTGGAAAGATACTCTGTCCTGCCAGAGGACAACCTCACAG
CTCTGCTGGCCTCTCCTCAAACAAGTGCTGTCAGGGACACTGCTCGCAGATGCAGTTACGTGGCTTTTCACCAGT
GTGCTGAAAGGCTTACAGATGCACGGGCAGCACGACGGGTGCATGGCTTCCCTGGTCCATCTGGCCTTCCAGATA
TACGAGGCACTGCGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGCAAATCCCTGAAATACAGAAGGACTCA
CTGGACCAGTTTGACTGCAAGCTTTTAAACCCCTCCCTGCAGAAAGTGGCTGACAAGCGCCGAAAGGACCAATTC
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FIGURE 1454B

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AAACGCCTCATTGCTGGTTGCATTGGGAAACCCTTGGGAGAGCAGTTCCGAAAAGAAGTTCACATTAAGAATCTT
CCCTCACTTTTCAAAAAAACAAAGCCAATGCTGGAGACGGAGGTGCTGGACAATGATGGGGGTGGCCTGGCCACC
ATCTTTGAACCCTGAATCAAGCTTTTGGGCATCCTTCCTCGGCCTTTCTTGTCATCTCTTCTTTCCCTTTGTAGC
CGATCTCTAGGCCCTTCTTGCACTGCCACCTCACTTTCCACCACTGTCAGCCTGGAAAGAGATCCAGGTCTGGAG
CTGGAGAGAACAGGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTATCAAGAAAGGGAGTTAGGGCTTAAAC
TATTCTGTCTAGATGTCCCAGATAGTTCCCATTCTACTTGGAGATTTGGCTTTTCCAAGAAAAGCTAGAGCAGAG
CAGCCCTTCTCCCACAAGCCCTCCCACCCCCGTGCAGCCACATACCTGTACAGAATGGTAACTAAGGGTGCTGTG
CCCAACCCTGCGACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCAACTACTTGTGCCAGAGTTTCTCTTGGACC
ACTCCAACTCCCACTGAGCCCTTTTGCTGCTGGGCTGGCAGGAAACTTTCCCCACTCCCTAAGGGGCATGTCTGG
GTTAGGTGCTAAGTGCTGAAGAGAACTTGGTCAGTTCTCTCAACTTTGCTTTGGGCAAGAATCTGGTCACCTGAT
GGGATCCATGGTACAGGCTACTGCTAAACTTGGCACAGTATCAAGTATAGTACCTCCAAGGACCAGGGCTGGGAA
GTCTTTAGTGCTAACATCCCCTTTAGAGTTCACACATCTTGCCCTTCCATGAATGACCCCTCAGTCTGGCCTCCC
CAGCCTCAAGGTCCACTCAGGCACAAGAGCCACAGTACCCTAGATAGTGTCACATGACACCGTTGTCATCCAAGG
ATAATACAGACCAACTAGGCTACATCTGTGATGAGCAGCTAGCAAAGCCGCTGGTCTTCTCCTAGGACTAAGTCC
AGGTGCCTTCCACAATCTCATGGTCTTTCAGGTCCCTGGTTACTTTTCTCAAAGGCCATTCCAAAAGAATACAT
GCCTTCACATCACAACCTGTACTGTGAGTCCATTCTAGAGGTCACTGAAAGGCCCTGTAAAGAGAGGACATGGAT
ACGGGACCTGGCCCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCCATACAGAAACCAGTGTGTCCATGTGC
TCTGCACAAAAACAGACCTGTTGTCCATCCAGTCCACTGACAAGAGGGTTTCCCCGAGAGCCGAAGTGGACTGAA
GCTACAGTTTTTAGCTGGTGCGGGCCACAGGCAGGGTCAGATTGAGAAGAAGCAAAGCTGGGGAAGCAGAAGTTG
GGAGTCTTGTGTTGCTCCCTCTTCCTGTGTGGTGCTCTGGGTTTCTGTGGATCGTGAAGGCGATCTCAAGAGTGT
TTCCCTCCAAACCTGATAGCTGCCTATTCCTGTCTGGTTGGGGCTGTGGAGGATGTAGTTGTATTTATTGCATTG
TAATATTTTTAACATCCTGTGACTTCATGCTAGAAATTTTCTATTGTTTATAGAAACTTTTTGTAGAAACATTAA
CTCTAAAGCACATCTGCATGTCAGTAAAAATCTCAGTTTCGTACAG
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FIGURE 1455

ENHIKDALSRIVVEMIKREWPQHWPDMLIELDTLSKQGETQTELVMFILLRLAEDVVTFQTLPPQRRRDIQQTLT
QNMERIFSFLLNTLQENVNKYQQVKTDTSQESKAQANCRVGVAALNTLAGYIDWVSMSHITAENCKLLEILCLLL
NEQELQLGAAECLLIAVSRKGKLEDRKPLMVLFGDVAMHYILSAAQTADGGGLVEKHYVFLKRLCQVLCALGNQL
CALLGADSDVETPSNFGKYLESFLAFTTHPSQFLRSSTQMTWGALFRHEILSRDPLLLAIIPKYLRASMTNLVKM
GFPSKTDSPSCEYSRFDFDSDEDFNAFFNSSRAQQGEVMRLACRLDPKTSFQMAGEWLKYQLSTFLDAGSVNSCS
AVGTGEGSLCSVFSPSFVQWEAMTLFLESVITQMFRTLNREEIPVNDGIELLQMVLNFDTKDPLILSCVLTNVSA
LFPFVTYRPEFLPQVFSKLFSSVTFETVEESKAPRTRAVRNVRRHACSSIIKMCRDYPQLVLPNFDMLYNHVKQL
LSNELLLTQMEKCALMEALVLISNQFKNYERQKVFLEELMAPVASIWLSQDMHRVLSDVDAFIAYVGTDQKSCDP
GLEDPCGLNRARMSFCVYSILGVVKRTCWPTDLEEAKAGGFVVGYTSSGNPIFRNPCTEQILKLLDNLLALIRTH
NTLYAPEMLAKMAEPFTKALDMLDAEKSAILGLPQPLLELNDSPVFKTVLERMQRFFSTLYENCFHILGKAGPSM
QQDFYTVEDLATQLLSSAFVNLNNIPDYRLRPMLRVFVKPLVLFCPPEHYEALVSPILGPLFTYLHMRLSQKWQV
INQRSLLCGEDEAADENPESQEMLEEQLVRMLTREVMDLITVCCVSKKGADHSSAPPADGDDEEMMATEVTPSAM
AELTDLGKCLMKHEDVCTALLITAFNSLAWKDTLSCQRTTSQLCWPLLKQVLSGTLLADAVTWLFTSVLKGLQMH
GQHDGCMASLVHLAFQIYEALRPRYLEIRAVMEQIPEIQKDSLDQFDCKLLNPSLQKVADKRRKDQFKRLIAGCI
GKPLGEQFRKEVHIKNLPSLFKKTKPMLETEVLDNDGGGLATIFEP

FIGURE 1456

GCACGAGGCCGTGGAGGCGCCACGTCCCTTGCGGCGGCGGGAGAGAAATCGCTTGGACTTCGGGGCGGCCTCGGA
CGGCC**ATG**GCCTTTACCCTGTACTCACTGCTGCAGGCAGCCCTGCTCTGCGTCAACGCCATCGCAGTGCTGCACG
AGGAGCGATTCCTCAAGAACATTGGCTGGGGAACAGACCAGGGAATTGGTGGATTTGGAGAAGAGCCGGGAATTA
AATCACAGCTAATGAACCTTATTCGATCTGTAAGAACCGTGATGAGAGTGCCATTGATAATAGTAAACTCAATTG
CAATTGTGTTACTTTTATTATTTGGA**TGA**ATATCAGTGGAGAAAATGGAGACTCAGAAGAGGACATGCCAGTAGA
AGTTATTACTTTGGTCATTATTGGAATATTTATATCTTAGCTTGGCTGACCTTGCACTTGTCAAAAATGTAAAGC
TGAAAATAAAACCAGGGTTTCTATTTATCTGTTTTTTTTTTTAATGTTGCACTTGTAGTTTCATTACAAAAGATC
AGATCATGAAAGGCAGTAACTCTCCAGGACTGGAATATCTGATTGCTCAGTGTTAATAGTAGTTCATGCTGTGGT
GAGATTGTTAAAAGGGTGCAAGACTGTTGCTTCTCTTTTTTTAGATATTTTTCTATCTCTCACTTCTCAGGGATG
AAATTCTTTTTCAAAGTTTTGAAGTTCCTTGCAACTTAGCCATGATGTGAGTGGTTATCCCTAGATAAAATTAAA
AGGATTTTTAAAAAGTAATTACTGCACATAAAATGATAAATAGGTAATTTGAATAATTTTATTTTAAGCTCCTTG
GTTAATTATTTTGTCTATTGTCTCAGCTATAAATTCAAATTTATACATACTATTGAGTATTAATATTCTCTGATT
TCAGGGAGAATTCTGTCAGTCACATGATGATTATGTTTTTGTTTAACAATTCTTTCCATGCACTTGTTATTTTAT
TAATTTGCCTGAATGATGAGACCAGACCAGTGTCTACAGATTTTCATTGTCAGAAAAATCTATAAGTCTGCCCTT
TTTACAATGATGATTTAAAAAAAAACAACAGCGTAAATATTAGCCCACAAGAGCAGTCCTAAACAATCACAATTAC
ACTGTACTACCCAAGAAGACTGTTTATTGTGAAGCATTTACCTTTCAAAAAATCATTACATTTCTATTTCTTGGT
GGAGCAGCACATTGTGGAGTGTGATTCTTAATTCTTCATTGAGTTTGTCAATAGGACATTGATGCTGGATAGGTT
GTCTTTTGTTTTTATGTCTCAGACCATCTTGTGAGATTGTTTGCCTATCTCATAATACAGTTTTATGCAGAAAGG
TTGAAACTATGTAAATGGTTTTTATGGAAATTATCAGTTACAATATTTTAAAGGTGTAGAATGGCATCTTTGTTT
ATAGGAGAACATTTGTAAATAAAGTTAAATTTCTAAGCCTTTAAAATATTGTAACTGATAATTTCCATAAAAACC
ATTTACATAGTTTCAACCTTTCTGCATAAAACTGTATTATGAGATAGGCAAACAATCTCACAAGATGGTCTGAGA
CATAAAAA

FIGURE 1457

MAFTLYSLLQAALLCVNAIAVLHEERFLKNIGWGTDQGIGGFGEEPGIKSQLMNLIRSVRTVMRVPLIIVNSIAI
VLLLLFG

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FIGURE 1458

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GTCTGTAATCCGTGTCTCCAGTAGTAGCTGCAGTGACTGTAGGTATCGGTGTTCCTATTATGTTAGCTTATGTCT
ATGGCGTAGTTCCAATTTCTCTTTGTCGAAGCGGAGGTTGTGGAGTCTCAGCAGGCAATGGAAAAGGAGTTAGGA
TTGAATTTGATGATGAAAATGATATAAATGTTGGTGGAACTAACACAGCTGTAGACACAACATCAGTAGCAGAAG
CAAGACACAACCCAAGCATAGGGGAGGGAAGTGTTGGTGGGCTGACTGGCAGTTTGAGTGCAAGTGGAAGCCACA
TGGATCGAATAGGAGCCATCCGAGACAACCTGAGTGAAACGGCCAGCACCATGGCACTAGCTGGAGCCAGTATAA
CGGGGAGTCTGTCAGGAAGTGCCATGGTAAACTGTTTTAACAGGTTGGAAGTACAAGCAGATGTACAGAAAGAAC
GGTACAGTCTAAGTGGAGAATCTGGCACAGTCAGCTTGGGAACAGTTAGTGATAATGCCAGCACCAAAGCAATGG
CAGGATCCATTCTGAATTCCTACATCCCATTGGACAAAGAAGGCAACAGTATGGAGGTGCAAGTAGATATTGAGT
CAAAGCCATCCAAATTCAGGCACAACAGTGGAAGCAGTAGTGTGGATGATGGCAGTGCCACCCGAAGTCATGCTG
GCGGTTCATCCAGTGGCTTGCCTGAAGGTAAATCTAGTGCCACCAAGTGGTCCAAAGAAGCAACAGCAGGGAAAA
AATCAAAAAGTGGTAAACTGAGGAAAAAGGGTAACATGAAGATAAATGAGACGAGAGAGGACATGGATGCACAGT
TGTTAGAACAACAAAGCACGAACTCAAGTGAATTTGAGGCTCCATCCCTCAGTGACAGTATGCCTTCTGTAGCAG
ATTCTCACTCTAGTCATTTTTCTGAATTTAGTTGTTCTGACCTAGAAAGCATGAAAACTTCTTGTAGTCATGGTT
CCAGTGATTATCACACCCGCTTTGCTACTGTTAACATTCTTCCTGAGGTAGAAAATGACCGTCTGGAAAATTCCC
CACATCAGTGTAGCATTTCTGTGGTTACCCAAACTGCTTCCTGTTCAGAAGTTTCACAGTTGAATCATATTGCTG
AAGAACATGGTAACAATGGAATAAAAACCTAATGTTGATTTATATTTTGGCGATGCACTAAAAGAAACAAATAACA
ACCACTCACATCAGACAATGGAATTAAAAGTTGCAATTCAGACTGAAATTTAGGCCCATAAATGCTGCAGAATAA
TTACCACTGTACAACCGTGTTTGGAGCTGGTTGAACTACATGTGACTACTTAAGTTTCAGGTTACCAGCAAAAGC
CGGGTTTCATTATCATAATGCAGATACATTTTCTGTGTTCAGCAAGGCATTGTGTGTCATGTGGATCTTAGTTAC
CAAACTATGAAGTGAAGGCTTTAAAAGTGCATTATTTTAAGGATAATAAATTTGAAGAGCAAAGCATGTTTTGTG
TGTTTGCCACAAAACATTGCTTGAAGCACATACTTAGATAGAAATTGGTCTTAATTTATATAATCAATATAAAAT
ACTAATGCAATTCTACAGCATTCAAATGAAGAAAACTTGAGGCTTTAGGGATAAGTGGTTAGTGATATTTTATTG
AAACCACTAAAGAGATAAGTTTAAAAGAACTGCATAGGTTACTCTCAGTATATGATACTCTGTAACATTTCTATT
TATATCGGCATAAATTTCATTTTTTTTCTTCATATGCAATGTGGTTATATAAAGCTTAATGCAGCTCATTTGCTA
CCATTTGGATACTTAGCACACTTTGAGCAAGATTGTGGCAGTTTTTGCACAACTTTGAAATAGAAATACCTGGTAC
TCTATCTTGTTTATTGTTGATGCCATCTTAGAGGAAAAAATGTAAAGGTAAGTAATTAAGCATATGACAGCAACA
AATAAGATACATAAAACTACAAAATAAAGTCCCATTAGGTTATAAGTATTACAAAAAATCCACCTTTCTCTAAGG
GGAAGTTTGTACCCCATTGATTCTTGGTGCCTTTGGGATCGACTGGGTTTTAATGGCCTAGTTATTTGAGGATTT
TGCTGTGTTGTTTTCCATGTCTTCTCTGGTCACCTTGGATTATATATAAAAATACAGGAAATAGGTAAACATGAA
TGTGATTAATAATGCTGAAAAAGTATTAGCCTACCAAAGACACACTCAGGCTTTAGTGAATAACTTTACATAACC
TCAGTTTTTAACACATGCATATCTTCTCCAACCATGAAATCAAAGCACGGTGCAGAACTTGTACCAAGTACAAAA
GGTCCATGTATGATTAGCATTATTTTCTTTTGCTTTTGTTTATGGACAATGTTCAGCTGACATAAGCAGAAGTTG
GCCAAAATACTGCCTGTACTGTTAATTTCCTGTATAATTCACTTAAATAAAAGCAGGTTAACCTCAAAAAAAAAA
AAAAAAAA
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FIGURE 1459

MLAYVYGVVPISLCRSGGCGVSAGNGKGVRIEFDDENDINVGGTNTAVDTTSVAEARHNPSIGEGSVGGLTGSLS
ASGSHMDRIGAIRDNLSETASTMALAGASITGSLSGSAMVNCFNRLEVQADVQKERYSLSGESGTVSLGTVSDNA
STKAMAGSILNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSHAGGSSSGLPEGKSSATKWSKE
ATAGKKSKSGKLRKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSVADSHSSHFSEFSCSDLESMKT
SCSHGSSDYHTRFATVNILPEVENDRLENSPHQCSISVVTQTASCSEVSQLNHIAEEHGNNGIKPNVDLYFGDAL
KETNNNHSHQTMELKVAIQTEI

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FIGURE 1460

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GGCACGAGCGGCACGAGCGGAGGGCGCCTCGCGGCAGGAGCGGGATTTCCGGGGTCACGGGAACCGGCAGGGGAA
CGGGATAAAGTTCCCGGAGAAAGGAAAGGAGAGCGTGGGATAGTAAAAGAGAAGACGCGGAGAAGAGGAGAGGAC
CTACAAGAACGGAGGACAGGGGCGCACGATGGTCCCGGGGGGAGCGGAAACAAAGGCACGCAAAACGGAAAAGCG
TGTGTAGGGGAGCGGAAAAGGAAGTCACCACCGTGGCCTGCGACGAAATGGCGAAAAGTCTTTTGAAGACAGCCT
CTCTGTCTGGAAGGACAAAATTGCTACATCAAACAGGATTGTCACTTTATAGTACATCCCATGGATTTTATGAGG
AAGAAGTGAAAAAAACACTTCAGCAGTTTCCTGGTGGATCCATTGACCTTCAGAAGGAAGACAATGGCATTGGCA
TTCTTACTCTGAACAATCCAAGTAGAATGAATGCCTTTTCAGGTGTTATGATGCTACAACTTCTGGAAAAAGTAA
TTGAATTGGAAAATTGGACAGAGGGGAAAGGCCTCATTGTCCGTGGGGCAAAAAATACTTTCTCTTCAGGATCTG
ATCTGAATGCTGTGAAAATCACCATAGGAATCTCCCAGAGGAGACTTCCTTTAATAAGTGTTGCGCTGGTTCAAG
GTTGGGCATTGGGTGGAGGAGCAGAATTTACTACAGCATGTGATTTCAGGTTAATGACTCCAGAGAGTAAGATCA
GATTCGTCCACAAAGAGATGGGCATAATACCAAGCTGGGGTGGCACCACCCGGCTAGTTGAAATAATCGGAAGTA
GACAAGCTCTCAAAGTGTTGAGTGGGGCCCTTAAACTGGATTCAAAAAATGCTCTAAACATAGGAATGGTTGAAG
AGGTCTTGCAGTCTTCAGATGAAACTAAATCTCTAGAAGAGGCACAAGAATGGCTAAAGCAATTCATCCAAGGGC
CACCGGAAGTAATTAGAGCTTTGAAAAAATCTGTTTGTTCAGGCAGAGAGCTATATTTGGAGGAAGCATTACAGA
ACGAAAGAGATCTTTTAGGAACAGTTTGGGGTGGGCCTGCAAATTTAGAGGCTATTGCTAAGAAAGGAAAATTTA
ATAAATAATTGGTTTTTCGTGTGGATGTACTCCAAGTAAAGCTCCAGTGACTAATATGTATAAATGTTAAATGAT
ATTAAATATGAACATCAGTTAAAAAAAAAATTCTTTAAGGCTACTATTAATATGCAGACTTACTTTTAATCATTT
GAAATCTGAACTCATTTACCTCATTTCTTGCCAATTACTCCCTTGGGTATTTACTGCGTAATTGGAACATTTACT
AAAATAACACTTTTGGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1461

MAKSLLKTASLSGRTKLLHQTGLSLYSTSHGFYEEEVKKTLQQFPGGSIDLQKEDNGIGILTLNNPSRMNAFSGV
MMLQLLEKVIELENWTEGKGLIVRGAKNTFSSGSDLNAVKITIGISQRRLPLISVALVQGWALGGGAEFTTACDF
RLMTPESKIRFVHKEMGIIPSWGGTTRLVEIIGSRQALKVLSGALKLDSKNALNIGMVEEVLQSSDETKSLEEAQ
EWLKQFIQGPPEVIRALKKSVCSGRELYLEEALQNERDLLGTVWGGPANLEAIAKKGKFNK

FIGURE 1462

<u>ATG</u>TTGGTGCTGTTTGAAACGTCTGTGGGTTACGCCATCTTTAAGGTTCTAAATGAGAAGAAACTTCAAGAGGTT
GATAGTTTATGGAAAGAATTTGAAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTT
CAGGATACAGCAGAAGCATTAGCAGCATTCACAGCTCTGATGGAGGGCAAAATCAATAAGCAGCTGAAAAAAGTT
CTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAAACTAGGAGGGGTCATAAAGGAA
AAGCTGAATCTCAGTTGTATCCATAGTCCTGTTGTTAATGAACTTATGAGAGGAATTCGTTCACAAATGGATGGA
TTAATCCCTGGGGTAGAACCACGTGAAATGGCAGCTATGTGTCTTGGATTGGCTCACAGCCTGTCTCGATATAGA
TTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTCAGGCAATTTCCTTGTTAGATGACTTGGATAAAGAA
CTAAACAACTACATTATGCGATGTAGAGAATGGTATGGCTGGCATTTCCCTGAATTAGGAAAAATTATTTCAGAT
AATTTAACATACTGCAAGTGTTTACAGAAAGTTGGCGATAGGAAGAACTATGCCTCTGCCAAGCTTTCTGAGTTG
CTGCCAGAAGAAGTTGAAGCAGAAGTGAAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGAT
ATTTGCAATATTCTGCATCTTTGCACCCAGGTGATTGAAATCTCTGAATATCGAACCCAGCTCTATGAATATCTA
CAAAATCGAATGATGGCCATTGCACCCAATGTTACAGTCATGGTTGGGGAATTAGTTGGAGCACGGCTTATTGCT
CATGCAGGTTCTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTCAGATTCTTGGAGCTGAAAAGGCACTT
TTCAGAGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTTATCATGCTTCACTCGTGGGCCAGACA
AGTCCCAAACACAAAGGAAAGATTTCTCGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATGCTTTT
GGTGAGGATTCAAGTTCTGCAATGGGAGTTGAGAACAGAGCCAAATTAGAGGCCAGGTTGAGAACTTTGGAAGAC
AGAGGGATAAGAAAAATAAGTGGÀACAGGAAAAGCATTAGCAAAAACAGAAAAATATGAACACAAAGTGAAGTG
AAGACTTACGATCCTTCTGGTGACTCCACACTTCCAACCTGCTCTAAAAAACGCAAAATAGAACAGGTAGATAAA
GAGGATGAAATTACTGAAAAGAAAGCCAAAAAAGCCAAGATTAAAGTTAAAGTTGAAGAAGAGGAAGAAGAAAAA
GTGGCAGAAGAAGAAGAAACATCTGTGAAGAAGAAGAAGAAAAGGGGTAAAAAGAAACACATTAAGGAAGAACCA
CTTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTAGTCCAGAGAAAAAGAAGAAAAAGAAAAAAAAGAGA
GAGAACGAGGA<u>TAA</u>

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FIGURE 1463

MLVLFETSVGYAIFKVLNEKKLQEVDSLWKEFETPEKANKIVKLKHFEKFQDTAEALAAFTALMEGKINKQLKKV
LKKIVKEAHEPLAVADAKLGGVIKEKLNLSCIHSPVVNELMRGIRSQMDGLIPGVEPREMAAMCLGLAHSLSRYR
LKFSADKVDTMIVQAISLLDDLDKELNNYIMRCREWYGWHFPELGKIISDNLTYCKCLQKVGDRKNYASAKLSEL
LPEEVEAEVKAAAEISMGTEVSEEDICNILHLCTQVIEISEYRTQLYEYLQNRMMAIAPNVTVMVGELVGARLIA
HAGSLLNLAKHAASTVQILGAEKALFRALKSRRDTPKYGLIYHASLVGQTSPKHKGKISRMLAAKTVLAIRYDAF
GEDSSSAMGVENRAKLEARLRTLEDRGIRKISGTGKALAKTEKYEHKSEVKTYDPSGDSTLPTCSKKRKIEQVDK
EDEITEKKAKKAKIKVKVEEEEEEKVAEEEETSVKKKKKRGKKKHIKEEPLSEEEPCTSTAIASPEKKKKKKKKR
ENED

1612/2682
FIGURE 1464

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GGCACGAGGCTCAGCGTTTGAGTCAGCCAGGAGTAGCAATAGGTTTGGCTTGGACTCCCTTAGGTGGAGAAATCA
TGTTCGTGGAGGCGAGTCGAATGGATGGCGAGGGCCAGTTAACTCTGACCGGCCAGCTCGGGGACGTGATGAAGG
AGTCCGCCCACCTCGCTATCAGCTGGCTCCGCAGCAACGCAAAGAAGTACCAGCTGACCAATGCTTTTGGAAGTT
TTGATCTTCTTGACAACACAGACATCCATCTGCACTTCCCAGCTGGAGCTGTCACAAAAGATGGACCATCTGCTG
GAGTTACCATAGTAACCTGTCTCGCCTCACTTTTTAGTGGGCGGCTGGTACGTTCAGATGTAGCCATGACTGGAG
AAATTACACTGAGAGGTCTTGTTCTTCCAGTGGGTGGAATTAAAGACAAAGTGCTGGCGGCACACAGAGCGGGAC
TGAAGCAAGTCATTATTCCTCGGAGAAATGAAAAAGACCTTGAGGGAATCCCAGGCAACGTACGACAGGATTTAA
GTTTTGTCACAGCAAGCTGCCTGGATGAGGTTCTTAATGCAGCTTTTGATGGTGGCTTTACTGTCAAGACCAGAC
CTGGTCTGTTAAATAGCAAACTGTAGGTCCAAATCTCAATTTTTTAGAATTTTAAGTTATGAAGTGCTCAAAGGT
ACTGACACAGTTGATTTTATTCACACCATTAGGGGTATGCAAGATGTCCCTGTTTTATAAACATAATCACAACAG
TAATAAACCTCAAGTAGTGGCTAGTGTTTAGTATAGAAATATAAGATGTTGATTTAGTAAACTGATAAAAATCGA
ATTCTTGTCTTTTTAGTGGGATCCTTACTGTCCCTGGAAAGATATAGCATAGTGGTTCTCAGCACAGTCTCCAGA
ACAGAAGCATCTGTAGTACCTGGTAACTTGTTAGAAATGTACATTCTCAGGCTCCACAGCAGGCCGCCTGAATCA
AATCCTGGGAGGTGGGGACAGAAATCTGTGTTTTAAGAAGCCTTCCAGGTAATTCTGCTGCACACTCAAGTTCAG
GAACCACCGGTATAGACCATTACCTTAGTGGATTTACCTGTAGAGTTTATTGGATCCTGAAACCAATCAATTACT
TAGAACTAGGCAAAGATGAAAGTATAGCCAACTATTCTTGGCTATATATATATATTCAAGTGGGCCGGGCGTGAT
GGCTCACACCTGTAATTCCAGCACTTTGGGAGGTCGAGGTAGGCAGATCACCGAGCCCAAGAGTTCAAGACAATC
CTGGCCAACGGCGAAACTCTGTCTCTACAAAAAATATACAGGCGTGTTAGCATGTGCCTGTAATCCCAGCTTCTT
GGGAAGCTGAGGCACAAGAATTGCCTGAACCCAGGAGGTGGAGGTTGCAGTGAGCTGGGATCGCGCCATTGCACT
CCAGCCTGGCTGACAGAGCGAGACTGTCTCTAAAAAAAAAAGACTCAAGTGGACCCTACAATGAAGCCTACACAT
CCCAATAGAAGCCCCTTCTTATGCTGAGGGAAGCAGCCCTCAGAACATGATAGCTTGTATCCAGCAGAGTGGCAC
GTGCTGGCACACCTCACAGAAGCACCCTGGCCCTGGATGCCTGCAACCTCAGAAGAGTGCAGCTCCCAGAGGGAG
GCAGCCATCCATCTGGGATGGTCCTAAGCATGGAATCCTAACTCCTGATTCCGTCTCCTATTTCTTGCTTGGCTA
TGCCAGTTCCCAAATCTGGTAGATGTCCATGCCCATGTGCTCCTGCTGGGACTCAATTCAGGCTATGTATGACTA
TGAAGTCAGGCTCATCTGCTTACTGGCTGTGTGAACTTTTTGTATCTTGGTTTTCTTCATCCATGAAATCCAAGT
AATACTACCTAATTGTTACTGTGGAGATTAAGTTCAAATGCAATGTATAGTAATATTAAGCAATTTCTAGTTATT
ATTCTAGCCAGTAATGGACTTCAGAATCTTTTATTACACAATATAAGAATATGTATGTAAAGACATTTTGGAATT
TCCTGGATGAGAAGGAAGTCTGGGCTGGGCATGGTGGCTCACGCCTGTAACCCTAGCACTTTAGGAAATCGAGGC
GAGTGGATCACTTAAGCTCAGGAGTTCAAGGCCAGCCTGGGCAACATGGCAAAACCCCATTTCTACAAAAAAATAC
AAAAATTAGCTGGGCATGGTGGCACCCGCCTGTAGTCCAGCTACTTGAGGCTGAGATGGGAGGATGAGGGAGGTC
GGGGCTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCACCCTGGGCGACAGAGTGAGACCCTGTCTCAAAAA
AAAAAAAAAAAAA
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1613/2682
FIGURE 1465

MKESAHLAISWLRSNAKKYQLTNAFGSFDLLDNTDIHLHFPAGAVTKDGPSAGVTIVTCLASLFSGRLVRSDVAM
TGEITLRGLVLPVGGIKDKVLAAHRAGLKQVIIPRRNEKDLEGIPGNVRQDLSFVTASCLDEVLNAAFDGGFTVK
TRPGLLNSKL

1614/2682

FIGURE 1466

TGGCACCGGCATCGGCTGACACTGCTGCCTCCAGCTAGTTATTTCGTCCTCTTCCGTTCTTCACCCCTACACCTT
GGAGGTGAACTTCTCACCTGAGGGCTGTAAAGACTCGTTTGAAA**ATG**GAGAGCCAAGAACCAACGGAATCTTCTC
AGAATGGCAAACAGTATATCATTTCAGAGGAGTTAATTTCAGAAGGAAAATGGGTCAAGCTTGAAAAAACAACGT
ACATGGATCCTACTGGTAAAACTAGAACTTGGGAATCAGTGAACGTACCAACCAGGAAAGAGCAGACTGCGGATG
GTGTCGCGGTCATCCCCGTGCTGCAGAGAACACTTCACTATGAGTGTATCGTTCTGGTGAAACAGTTCCGACCAC
CAATGGGGGGCTACTGCATAGAGTTCCCTGCAGGTCTCATAGATGATGGTGAAACCCCAGAAGCAGCTGCTCTCC
GGGAGCTTGAAGAAGAAACTGGCTACAAAGGGGACATTGCCGAATGTTCTCCAGCGGTCTGTATGGACCCAGGCT
TGTCAAACTGTACTATACACATCGTGACAGTCACCATTAACGGAGATGATGCCGAAAACGCAAGGCCGAAGCCAA
AGCCAGGGGATGGAGAGTTTGTGGAAGTCATTTCTTTACCCAAGAATGACCTGCTGCAGAGACTTGATGCTCTGG
TAGCTGAAGAACATCTCACAGTGGACGCCAGGGTCTATTCCTACGCTCTAGCGCTGAAACATGCAAATGCAAAGC
CATTTGAAGTGCCCTTCTTGAAATTT**TAA**GCCCAAATATGACACTGGCCATTTTTGTAAACGAGACCACCAGGCC
TTCTTCACTAAGACTTTGTATTCAACTTAGTTTAATGTAGATTTGCCATTAGCTTTTTCGTAAAATAAAAGCACA
GAACAGATGTGGTGGTGGTATGGAATTGTAATTACAGGTAGGTTGTGACCTTCCTTTAAATTTGTTATAACTCCA
GCTAAAATTAACAAAGAATATAAATGCAAGTATGTTTACTCCAATTTTTTTAAAGCTCAACAGAGTTAACTACAG
CTCAGTTACTTTTCTAGTCCAGTCTGGAACACAGGGGTATTTGGTATTGAGAAATAGACCTGAGTTCTCAATTAG
GTCA

1615/2682
FIGURE 1467

MESQEPTESSQNGKQYIISEELISEGKWVKLEKTTYMDPTGKTRTWESVNVPTRKEQTADGVAVIPVLQRTLHYE
CIVLVKQFRPPMGGYCIEFPAGLIDDGETPEAAALRELEEETGYKGDIAECSPAVCMDPGLSNCTIHIVTVTING
DDAENARPKPKPGDGEFVEVISLPKNDLLQRLDALVAEEHLTVDARVYSYALALKHANAKPFEVPFLKF

1616/2682
FIGURE 1468

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GCCCCCGAGCAGGAGCCGGTGCGAGCGGAGCAGAGCCGAGGTCGGGCCGCGAGCGGAGCCGGCTGAGCGGGCGCC
GAGCTCCCGCCATGGCCCGGAACACGCTGTCCTCGCGCTTCCGCCGGGTGGACATCGACGAATTTGACGAGAACA
AATTTGTGGACGAGCAGGAGGAGGCGGCGGCGGCGGCGGCGGAGCCAGGCCCGGACCCGAGCGAGGTGGACGGGC
TCCTGCGGCAAGGGGACATGCTTCGGGCATTCCATGCAGCCTTGCGGAACTCTCCCGTCAACACCAAGAATCAAG
CTGTGAAGGAGCGAGCCCAGGGCGTGGTGCTGAAAGTGCTCACAAACTTCAAGAGCAGTGAGATTGAGCAGGCTG
TGCAGTCACTGGACAGAAACGGCGTTGACTTGTTAATGAAGTACATTTATAAAGGCTTTGAGAAGCCCACAGAAA
ATAGCAGCGCAGTGTTACTCCAGTGGCACGAAAAGGCCTTAGCAGTAGGAGGACTAGGCTCCATTATAAGAGTTC
TTACAGCAAGAAAGACTGTTTAAAAAAAATAAAAAGACTCATGTTACCTTGAGAAGAATTCTGGATGCCCAGGCT
GGTGAAGAAGGGATTGACAATGGACCATCTTCCTAGGAACTCCCAAGTAAACTATTTCAGGACATGTATCTGCTG
AAATGTATTTTATTTTCAAGGTGGAGGGGAAAATCGTCTGTTTCCTAAATCCTGTTTAGGATCTGATAGTCTATG
CCTTTGTCTCCGAGTACTGCAGAACTGACATTTTGACGGTCTACCAGCGTGGCGGCTGGTGTTGGTCAGATGCAC
CTGTGTGCACTGGGGGAGGGATGGTTTGGGCAGGTGCAGATCCAAGGGCTGTGGTAAACGGGAGAGCTTGTGTTT
TTGAAGTGGAAAAAAACCCAAGAGTTTGTACAGACATCCTGTCTTCCCAGAGAAGGTGGACACTCTTGGGCTCAT
TGTAAAGTGCCTGCTGCATCAATAAAGCTCTTGGCTTATTAGTCTATACAAAAAAAAAAAAAAAAAA
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FIGURE 1469

MARNTLSSRFRRVDIDEFDENKFVDEQEEAAAAAAEPGPDPSEVDGLLRQGDMLRAFHAALRNSPVNTKNQAVKE
RAQGVVLKVLTNFKSSEIEQAVQSLDRNGVDLLMKYIYKGFEKPTENSSAVLLQWHEKALAVGGLGSIIRVLTAR
KTV

FIGURE 1470

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ACGATGGCATGACAACCGACGTTGGAGTTTGGAGGTGCTTGCCTTAGAGCAAGGGAAACAGCTCTCATTCAAAGG
AACTAGAAGCCTCTCCCTCAGTGGTAGGGAGACAGCCAGGAGCGGTTTTCTGGGAACTGTGGGATGTGCCCTTGG
GGGCCCGAGAAAACAGAAGGAAGATGCTCCAGACCAGTAACTACAGCCTGGTGCTCTCTCTGCAGTTCCTGCTGC
TGTCCTATGACCTCTTTGTCAATTCCTTCTCAGAACTGCTCCAAAAGACTCCTGTCATCCAGCTTGTGCTCTTCA
TCATCCAGGATATTGCAGTCCTCTTCAACATCATCATCATTTTCCTCATGTTCTTCAACACCTTCGTCTTCCAGG
CTGGCCTGGTCAACCTCCTATTCCATAAGTTCAAAGGGACCATCATCCTGACAGCTGTGTACTTTGCCCTCAGCA
TCTCCCTTCATGTCTGGGTCATGAACTTACGCTGGAAAAACTCCAACAGCTTCATATGGACAGATGGACTTCAAA
TGCTGTTTGTATTCCAGAGACTAGCAGCAGTGTTGTACTGCTACTTCTATAAACGGACAGCCGTAAGACTAGGCG
ATCCTCACTTCTACCAGGACTCTTTGTGGTTGCGCAAGGAGTTCATGCAAGTTCGAAGGTGACCTCTTGTCACAC
TGATGGATACTTTTCCTTCCTGATAGAAGCCACATTTGCTGCTTTGCAGGGAGAGTTGGCCCTATGCATGGGCAA
ACAGCTGGACTTTCCAAGGAAGGTTCAGACTAGCTGTGTTCAGCATTCAAGAAGGAAGATCCTCCCTCTTGCACA
ATTAGAGTGTCCCCATCGGTCTCCAGTGCGGCATCCCTTCCTTGCCTTCTACCTCTGTTCCACCCCCTTTCCTTC
CTTTCCTCTCTGTACCATTCATTCTCCCTGACCGGCCTTTCTTGCCGAGGGTTCTGTGGCTCTTACCCTTGTGAA
GCTTTTCCTTTAGCCTGGGACAGAAGGACCTCCCAGCCCCCAAAGGATCTCCCAGTGACCAAAGGATGCGAAGAG
TGATAGTTACGTGCTCCTGACTGATCACACCGCAGACATTTAGATTTTTATACCCAAGGCACTTTAAAAAAATGT
TTTATAAATAGAGAATAAATTGAATTCTTGTTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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1619/2682
FIGURE 1471

MLQTSNYSLVLSLQFLLLSYDLFVNSFSELLQKTPVIQLVLFIIQDIAVLFNIIIIFLMFFNTFVFQAGLVNLLF
HKFKGTIILTAVYFALSISLHVWVMNLRWKNSNSFIWTDGLQMLFVFQRLAAVLYCYFYKRTAVRLGDPHFYQDS
LWLRKEFMQVRR

FIGURE 1472

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GGCACGAGGCTGCCGCGCTGTCCGCGTTATCTCCTCCCGGTGAGAACGAACCGCAGTGTCCACCGGCGAGGAGCC
AGCCCTGTCCCGGTCAGAGAAAGACGACGAGGATACCTGGGAGCGGGCGGCGGCCGGGCTGGGCCGCGCCGGTGC
GGGCTGGCGACTCTGCTCCTCCGCTTGCTGCTGTCTCTGGGAACTGGGTGCCAGCGCTGAGGGGCTTCCAGCGGA
CAGGGACCCCCTTCCCCGGCTCCCCTGCCCACCCTGCCGGGGAGGGCGGAAGATGCCGGTGAAGAAGAAGAGAAA
ATCCCCTGGGGTGGCAGCAGCAGTAGCGGAAGACGGAGGCCTCAAAAAGTGTAAAATCTCCAGCTATTGCAGATC
CCAACCCCCTGCTAGACTAATAAGTGGAGAGGAACATTTTTCAAGCAAGAAGTGCCTGGCTTGGTTTTATGAATA
TGCAGGTCCTGATGAAGTTGTAGGGCCAGAAGGAATGGAAAAATTTTGTGAAGACATTGGTGTTGAACCTGAAAA
TATTATTATGTTAGTTTTAGCGTGGAAATTGGAGGCTGAAAGCATGGGATTTTTTACCAAGGAAGAATGGTTAAA
GGGAATGACTTCATTACAGTGTGACTGCACAGAAAAGTTACAAAACAAATTTGACTTTTTGCGCTCACAGTTGAA
TGATATTTCGTCATTTAAGAATATCTACAGATATGCCTTTGATTTTGCAAGGGATAAAGATCAGAGAAGCCTTGA
TATTGATACTGCTAAATCTATGTTAGCTCTTCTGCTTGGGAGGACATGGCCACTGTTTTCAGTATTTTACCAGTA
CCTGGAGCAATCAAAGTATCGTGTTATGAACAAAGATCAATGGTACAATGTATTAGAATTCAGCAGAACAGTCCA
TGCTGATCTTAGTAACTATGATGAAGATGGTGCTTGGCCTGTTCTTCTTGATGAATTTGTTGAGTGGCAAAAAGT
CCGTCAGACATCATAGCAAGAACTATGTGAAGAAAATGCAAACCTTTCAATTCCCACGTGTATACAAGCTAATGT
GATGAGGGGGAAAAAAATCCAACGGGTGCATTTTCATTCATATGAAAGACTTCTCATAGTACTTTTTTTTCCTTT
TTTTAAAGGAGGTTTTTCTTGTTACATGTGATGGGCATTGAGCCACACCTCTTCTTAGACTGAATATTGAAGTTT
TTGTTTTGAGTTATGTTTATAACATTTATTTCAGAACAATAAAGATTCAGATTTGTGAAAAAAAAAAAAAAAAAA
AAAAAAAAAA
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1621/2682
FIGURE 1473

MPVKKKRKSPGVAAAVAEDGGLKKCKISSYCRSQPPARLISGEEHFSSKKCLAWFYEYAGPDEVVGPEGMEKFCE
DIGVEPENIIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDCTEKLQNKFDFLRSQLNDISSFKNIYRYAFDFAR
DKDQRSLDIDTAKSMLALLLGRTWPLFSVFYQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDGAWPVLLD
EFVEWQKVRQTS

1622/2682
FIGURE 1474

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TAACTCCTTCCCTCTTTGCGGATTCTAGAACGGAACCTTTTTTTAATTCTTCCCAGTAGAAACGTAGGAACAATT
TCGTGAACGCAATCCGGAGTGCCCAACATGGCGGCGGCCGTAAGGTGCATGGGTAGAGCCTTGATACATCATCAA
AGGCATAGCCTTTCCAAGATGGTTTATCAGACATCACTTTGTTCTTGTTCTGTAAACATCCGAGTGCCCAACAGA
CATTTTGCTGCTGCTACAAAGTCTGCAAAGAAAACAAAAAAAGGTGCTAAAGAAAAAACACCAGATGAGAAAAAA
GATGAAATAGAAAAAATAAAAGCATATCCCTATATGGAAGGCGAACCTGAGGATGATGTCTATTTAAAACGCTTA
TACCCGAGACAGATATATGAGGTGGAGAAAGCTGTTCACTTACTTAAGAAATTTCAAATTCTTGACTTTACTAGT
CCAAAGCAAAGTGTTTATCTTGATTTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTTACC
AGTGTTCTTAGTTTGCCATACCCATTTGCTTCCGAAATCAATAAAGTTGCTGTATTTACAGAGAATGCATCAGAG
GTCAAAATAGCGGAAGAAAATGGAGCTGCATTTGCAGGAGGCACTAGTCTGATACAGAAGATTTGGGATGATGAA
ATTGTTGCAGACTTTTACGTAGCTGTTCCAGAAATAATGCCTGAACTTAATCGATTAAGGAAGAAACTGAATAAA
AAATATCCAAAGCTTTCTCGAAATTCCATTGGCCGTGACATCCCCAAAATGCTTGAATTATTTAAAAATGGACAT
GAAATTAAGGTAGATGAAGAAAGGGAGAACTTTCTCCAGACCAAAATAGCAACATTGGATATGTCAAGTGACCAG
ATAGCTGCCAATCTGCAAGCAGTTATTAATGAAGTTTGTAGGCACAGACCGCTGAATTTGGGTCCCTTTGTGGTA
CGTGCTTTCCTTCGTAGTTCAACAAGTGAAGGTTTATTACTGAAGATTGATCCATTGTTGCCTAAAGAAGTAAAA
AATGAAGAAAGTGAAAAAGAAGATGCCTAAATGTGGTGAATTGTGAAATTACTTTCAGTGGTTTAAGAAGCAATG
GAGAAAATGATAATACAGCATAATTTTTACATTTGATGTCTTGTTATTGATCATACTTGAAAGTGAACTTTAACA
TTGAAAAATCGTACAGTCATTTCAAGAATAAGAAAATAAAATTTTCTCTTTGTCTGAAAAAAAAAAAAAAAAAAA
AAAAAAAA
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1623/2682
FIGURE 1475

MVYQTSLCSCSVNIRVPNRHFAAATKSAKKTKKGAKEKTPDEKKDEIEKIKAYPYMEGEPEDDVYLKRLYPRQIY
EVEKAVHLLKKFQILDFTSPKQSVYLDLTLDMALGKKKNVEPFTSVLSLPYPFASEINKVAVFTENASEVKIAEE
NGAAFAGGTSLIQKIWDDEIVADFYVAVPEIMPELNRLRKKLNKKYPKLSRNSIGRDIPKMLELFKNGHEIKVDE
ERENFLQTKIATLDMSSDQIAANLQAVINEVCRHRPLNLGPFVVRAFLRSSTSEGLLLKIDPLLPKEVKNEESEK
EDA

FIGURE 1476

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TAGTCACGCTCGGTACCAGGCGCAGATCATGGCAGGCAGCCGGCTGGAAACCGTAGGGAGCATCTTCTCTCGGAC
TCGGGACCTGGTTCGGGCCGGGGTGCTGAAGGAGAAGCCCCTGTGGTTTGACGTATATGACGCCTTTCCCCCGCT
GAGGGAGCCCGTCTTCCAAAGGCCTCGAGTGCGATATGGCAAAGCCAAAGCTCCCATCCAAGACATCTGGTACCA
CGAGGATCGGATTAGAGCGAAGTTTTATTCAGTGTATGGGTCTGGTCAAAGAGCTTTTGATCTATTCAATCCAAA
CTTCAAGTCTACCTGTCAACGGTTTGTGGAGAAGTACACTGAGCTACAGAAACTTGGAGAAACAGATGAAGAGAA
GTTATTTGTGGAAACAGGGAAGGCTTTATTGGCAGAAGGTGTCATTTTAAGACGAGTAGGCGAAGCAAGGACTCA
ACACGGAGGTAGTCACGTTTCCCGGAAATCCGAACACTTGAGTGTCAGACCACAGACTGCGTTGGAAGAAAACGA
GACTCAGAAAGAAGTTCCACAGGACCAGCATTTGGAGGCACCTGCAGACCAGTCGAAAGGTCTCTTGCCTCCCTG
AAGGACCTGTATACTGTGTATGCTGGCATTCACACTCTACTCACTGGCTGAATGTTGAGCTATTTTTAAACAGTT
GAACTGTGTAAATGTTTCTTGATCTCTAAGGTATTATGTTTGCCTTCTCTTAGTTATTTCTGGGTTGTCACAAAG
CTCAGTATCATGGTTTGACAGAAGCAGTTATGTGAACTTTTATGTTAGGACATTACTAAATAAAGAATTCCCTAG
CTGCTTATAAAGTAAATTTACTTTGAATTGTAAATAACATGAAGAAACCTTTATAAAGATTGTTCAAATGGGACT
CAA
```

FIGURE 1477

MAGSRLETVGSIFSRTRDLVRAGVLKEKPLWFDVYDAFPPLREPVFQRPRVRYGKAKAPIQDIWYHEDRIRAKFY
SVYGSGQRAFDLFNPNFKSTCQRFVEKYTELQKLGETDEEKLFVETGKALLAEGVILRRVGEARTQHGGSHVSRK
SEHLSVRPQTALEENETQKEVPQDQHLEAPADQSKGLLPP

1626/2682
FIGURE 1478

ACGGCGCCCGCCAGGAGCGCCCCCCACTCCCAGGCCAGCCCACCCCGGCGGACCGGGCCCCGCGCGCCCAGGCGA
GGCACTGGGCTCCCTCTGCTCCCCGTGGGCCGCTCCCCGCGTGGGGCCACTGCCCCCGGCCCCCGCC**ATG**GTGCG
GATTTCAAAGCCCAAGACGTTTCAGGCCTACTTGGATGATTGTCACCGGAGGTATAGCTGTGCCCACTGCCGCGC
TCACCTGGCCAACCACGACGACCTCATCTCCAAGTCCTTCCAGGGCAGTCAGGGGCGTGCCTACCTCTTCAACTC
AGTGGTGAACGTGGGCTGCGGGCCAGCCGAGGAGCGGGTGCTGCTGACCGGCCTCCATGCTGTCGCCGACATCCA
CTGCGAGAACTGCAAGACCACTTTGGGCTGGAAATATGAACAGGCCTTTGAGAGCAGCCAGAAGTACAAAGAGGG
GAAGTACATCATTGAACTCAACCACATGATCAAAGACAACGGCTGGGAC**TGA**CCCCCGCTCCCCCGACGCATGTG
GCTCCAGCCCGGCCTGGCCGCCAGGGAGCGCCACTGGCTTCCCGCCACCCGAAGGGAGCTCTGGACCCTCAGAGC
CCCTGCAGAGGACGGATCTAGCTCCTGTATATATATTTTATTGCATGCACTGTGACCTTGGGGGGAGAACAGAAG
GGGGACGACGCCCCCGCACCTCCTGCGATCTGGCTGGCTTGGATCTCGTTTTTAACCCGTTCCTGCCCCACCTGC
CCTATAGTTATGGCCTGTGTTCTGCTCTCCTGGTCCCAGTGCACCGTCTGCTCTGTGAACTCCTCCCACCAGGCC
CTTCTTACCCCACGCGTGTCTGTCCCCCTCGTTCTGTAGCGTTTGTACATAATAAAACAATGGAGTGGAGACAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1479

MVRISKPKTFQAYLDDCHRRYSCAHCRAHLANHDDLISKSFQGSQGRAYLFNSVVNVGCGPAEERVLLTGLHAVA
DIHCENCKTTLGWKYEQAFESSQKYKEGKYIIELNHMIKDNGWD

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FIGURE 1480

GTGACATTGAGCTCACCAGCGCCACCGTCCCCGGCGAAGTTCTGCGCTGGTCGGCGGAGAGCAAGTGGCC**ATG**GG
GAGCCTCAGCGGTCTGCGCCTGGCAGCAGGAAGCTGTTTTAGGTTATGTGAAAGAGATGTTTCCTCATCTCTAAG
GCTTACCAGAAGCTCTGATTTGAAGAGAATAAATGGATTTTGCACAAAACCACAGGAAAGTCCCGGAGCTCCATT
CCCGCACTTACAACAGAGTGCCTTTACACAAACCTACGGATTGGCAGAAAAAGATCCTCATATGGTCAGGTCGCT
TCAAAAGGAAGATGAAATCCCAGAGACTGTCTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGATGCGAGTGAA
GATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTTTCATTGGTTATTGAGGGCAAGAAGCTTGCC
CAAAGACCGAGACTTTAACCAGCTTGGACCTTTAGAAAAGAAAGCTCGTCTGAAAGAAGGAAGCAGCTATGAAGG
CCAAAACAGATTACCAAAGGTATCCGTGTTGGTTGGGATTTTGAAAATCCAGGAATTATGTTTTAACGTGCCTGT
ATTAAAAAGGATGTGGTATGAGGATCCATTTCATAAAGTA**TGA**TTTGCCCAAACCTGTACCATTTCCGTATTTCT
GCTGTAGAAGTAGAAATAAATTTTCTTAAATAATGACTGTGTTTTATTGTTTTGATCCAAGTCAAGTGTAGCCTC
TCAGCCTTTTGGAGAAAAATGAAACAATTTATTTCAACTTGAATACCAACTCTTCAGAGAAGCAGGTACCATATC
TTACTTCTCTTCCCATTATCAAAGTAACCTCTCCACAGGCGAACTCATTTTGAGGAGATAAGGAAGGCCAGTTGA
GTATATGGCCCAGGTGCAGCTTGGAGGGCCAGCCTTCTCAAATGTCCTGGTGTACTGGTGGGGAGGCTGCCCCCT
AATAGAGCGAGCGCTGAGAAGCAGCCAGACCACATTCTATAATCTTTGAACATGCTGGCAGATGGAGGCTTTTAG
GAGAATAGTTTTTTAAACATTCTGACAAGGTCCAGCCAGGAATTTCTAAGGACTTAGAAATCCCAGTGTCATGGA
GTTGCTTGGGGGTCAACACAAGTCACCTCTTAGCTTCATGCCTTAGAATTCTCAACTGGGCTGTTTTTCTTACCA
CCTGAGAAACTAAAT

FIGURE 1481

MGSLSGLRLAAGSCFRLCERDVSSSLRLTRSSDLKRINGFCTKPQESPGAPFPHLQQSAFTQTYGLAEKDPHMVR
SLQKEDEIPETVSLEMLDAAKNKMRVKISYLMIALTVVGCIFHWLLRARSLPKDRDFNQLGPLEKKARLKEGSSY
EGQNRLPKVSVLVGILKIQELCFNVPVLKRMWYEDPFHKV

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FIGURE 1482

TCCAGCACCAAAGCGGCCGTTCTCGGATTCCGGAGCGTTCTGGAGCCCCGAGAGACGCCCCGGGGTTCTAGAAGC
TCCCCGGCGGCGCCCAGTCCCGGCTTCATTCGGGCGTCCCTCCGAAACCCACTCGGGTGCACGGGTCGTCGGCGA
GCCGCGACCGGGTCCTGGCGCGCACC**ATG**ATCGTGGCGGACTCCGAGTGCCGCGCAGAGCTCAAGGACTACCTGC
GGTTCGCCCCGGGCGGCGTCGGCGACTCGGGCCCCGGAGAGGAGCAGAGGGAGAGCCGGGCTCGGCGAGGCCCTC
GAGGGCCCAGCGCCTTCATCCCCGTGGAGGAGGTCCTTCGGGAGGGGGGCTGAGAGCCTCGAGCAGCACCTGGGGC
TGGAGGCACTGATGTCCTCTGGGCGAGTAGACAACCTGGCAGTGGTGATGGGCCTGCACCCTGACTACTTTACCA
GCTTCTGGCGCCTGCACTACCTGCTGCTGCACACGGATGGTCCCTTGGCCAGCTCCTGGCGCCACTACATTGCCA
TCATGGCTGCCGCCCGCCATCAGTGTTCTTACCTGGTAGGCTCCCACATGGCCGAGTTTCTGCAGACTGGTGGTG
ACCCTGAGTGGCTGCTGGGCCTCCACCGGGCCCCCGAGAAGCTGCGCAAACTCAGCGAGATCAACAAGTTGCTGG
CGCATCGGCCATGGCTCATCACCAAGGAACACATCCAGGCCTTGCTGAAGACCGGCGAGCACACTTGGTCCCTGG
CCGAGCTCATTCAGGCTCTGGTCCTGCTCACCCACTGCCACTCGCTCTCCTCCTTCGTGTTTGGCTGTGGCATCC
TCCCTGAGGGGGATGCAGATGGCAGCCCTGCCCCCCAGGCACCTACACCCCTAGTGAACAGAGCAGCCCCCCAA
GCAGGGACCCGTTGAACAACTCTGGGGGCTTTGAGTCTGCCCGCGACGTGGAGGCGCTGATGGAGCGCATGCAGC
AGCTGCAGGAGAGCCTGCTGCGGGATGAGGGGACGTCCCAGGAGGAGATGGAGAGCCGCTTTGAGCTGGAGAAGT
CAGAGAGCCTGCTGGTGACCCCCTCAGCTGACATCCTGGAGCCCTCTCCACACCCAGACATGCTGTGCTTTGTGG
AAGACCCTACTTTCGGATATGAGGACTTCACTCGGAGAGGGGCTCAGGCACCCCCTACCTTCCGGGCCCAGGATT
ATACCTGGGAAGACCATGGCTACTCGCTGATCCAGCGGCTTTACCCTGAGGGTGGGCAGCTGCTGGATGAGAAGT
TCCAGGCAGCCTATAGCCTCACCTACAATACCATCGCCATGCACAGTGGTGTGGACACCTCCGTGCTCCGCAGGG
CCATCTGGAACTATATCCACTGCGTCTTTGGCATCAGATATGATGACTATGATTATGGGGAGGTGAACCAGCTCC
TGGAGCGGAACCTCAAGGTCTATATCAAGACAGTGGCCTGCTACCCAGAGAAGACCACCCGAAGAATGTACAACC
TCTTCTGGAGGCACTTCCGCCACTCAGAGAAGGTCCACGTGAACTTGCTGCTCCTGGAGGCGCGCATGCAAGCCG
CTCTGCTGTACGCCCTCCGTGCCATCACCCGCTACATGACC**TGA**CTCCTGAGCAGGACCTGGGCCCGGTTCAGCT
CCCCACAAGGACTTCTCTGTCTGGAGACAGCCCCAGACCCTTTTGTGTCCCATGCCCACCCTCCCCACGCTGCAG
TGGGCTTGTGTGTGATGTGCAGTCCCGAAGCCACACCCTCCCTTTTCCTCACTGGAATGGACAGTTCATTGCACT
GACTCTGGGATCTCAGCCCTGCTCCTGGGAGCTGGAAGAGCACTTGGAGATCCTAAGGGACCACACCCTTCCTCC
TTCCCCTGCCCACAGAGGCAGAGGGCACAGGAAAGAAGCCGGGCCAAGCTCGGAATTAATGTGCCACAAGTGTTG
TGGCCTTCCTGAACTGGGAAGTCCCTGGCTGGCCCCCGGGGGAGAGGGGCAAATGCCTCCGGGACTGACACTCCA
GGCAGCTTTGCCTTCTCTCCCCTGTCATTTCCAGATTTCATTACCTCCTACTTGCCATTCACCCATCAATGTGAA
AGTCAGGGTCACAGCTGGTCTGTGTGTCCAGTTCCCTAAAAGCCTGTTCTGTTGGGCAGCCTGAGGCTGTTGCCC
GAATCCTAGTTCAGTTTTTTGACTTCCTTTGCCCTTTTTCCCTTTTCTCCATGCTTAATGGTGTGAGGCGTCAGG
AGAGAGGCCAAGTACATAAAAAAAAAAAAAAAGCAGATTATCTCTAGAGAGTTTGAGCCTTTGCTGGTCACATTGC
CTTCTGAAGAGGAGGGAGTATTAGATTATAAATCCTCTTTATTTTGGTCCTTTATGCTTGAGGTTCCAACCTGGA
GCCACAGTGTGTGAGAGGAGGAGGAGAGGGAGAATTCTGTTCTCCCAGAGCTGCACCTGCCTCGCAGAGGCCAGC
ACCCCACTCTCCTGCCTCCAGTGGCCCTGCCGCAGATGTCTCCCAAAAAGTTGAGCCTTTCTAGATGGCTTAGGT
GGCACCATGGCTCAGCAGGAGGGCGGGAGGCACCAGGGTTCTTGTTTGGACCCTGCCCCTGGGCCATGGCCAGG
TGACCATGGCTACATTGCCAAACCTCTGACTGCCACAGCTGCAGACTGAGAGGGTGGGTCTGAGTCCCCACAATG
TCTGAAGCTGCCCCTGGGATTCTCAGGCCAACCTGCCAACAGCAAGCGGATTTTCTTGCAAGATCAGGGACCCCA
TTTCTGCAGCCAGTGTCTCCTGGGTGCCTTCTGAGGACTCCCACCCCCATCCCAGTATCTCATCTGTCCCCTCTC
CTGGGGCTTAAGTGGGTTGCTTCCAGGCAGAAGCAGCCAAGGACCGATTCCAGGCACTTTCTGTAGCAAATGACT
GTGAATTACGACTTCTCTTGCCCTTCTTCTAGCAGTCTGTGCCTCCTCTCTGACCAGTTTGGAGGGCACTGAAGA
AAGGCAAGGGCCGTGCTGCTGCTGGGCGGGGCAGGAGAGGAGCCTGGCCAGTGTGCCACATTAAATACCCGTGCA
GGCGCGGAGAAGCAACCGGCACCCCCTTCCGGCCTGAAAGCCCTCCCTGCAAGAAGGTGTGCAGGAGAGAAGAGG
CCCCGGCATGGGGATCTGGGTTCTAGAGGGCATGTGATGACTGTAAATGTTCACTGGGTGGGTAGGGAGTGGTAT
CCAGTGTTCAAGTGCAGAAATCTTTGGCTTTGCTACCAGTTCCATATGATGAGAAATAAACGTTCGCTGAGGTTT
TGTTTCATAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1483

MIVADSECRAELKDYLRFAPGGVGDSGPGEEQRESRARRGPRGPSAFIPVEEVLREGAESLEQHLGLEALMSSGR
VDNLAVVMGLHPDYFTSFWRLHYLLLHTDGPLASSWRHYIAIMAAARHQCSYLVGSHMAEFLQTGGDPEWLLGLH
RAPEKLRKLSEINKLLAHRPWLITKEHIQALLKTGEHTWSLAELIQALVLLTHCHSLSSFVFGCGILPEGDADGS
PAPQAPTPPSEQSSPPSRDPLNNSGGFESARDVEALMERMQQLQESLLRDEGTSQEEMESRFELEKSESLLVTPS
ADILEPSPHPDMLCFVEDPTFGYEDFTRRGAQAPPTFRAQDYTWEDHGYSLIQRLYPEGGQLLDEKFQAAYSLTY
NTIAMHSGVDTSVLRRAIWNYIHCVFGIRYDDYDYGEVNQLLERNLKVYIKTVACYPEKTTRRMYNLFWRHFRHS
EKVHVNLLLLEARMQAALLYALRAITRYMT

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FIGURE 1484

GGGGACTCCGGGAGGAGGAAC**ATG**GCCGTGGCGGACCTCGCTCTCATTCCTGATGTGGACATCGACTCCGACGGC
GTCTTCAAGTATGTGCTGATCCGAGTCCACTCGGCTCCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCG
TGCGCGGCTACAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTCGGGCGACATGCAGAAGCAAGGCT
GCGACTGTGAGTGTCTGGGCGGCGGGCGCATCTCCCACCAGAGTCAGGACAAGAAGATTCACGTGTACGGCTATT
CCATGGCCTATGGTCCTGCCCAGCACGCCATTTCAACTGAGAAAATCAAAGCCAAGTACCCCGACTACGAGGTCA
CCTGGGCTAACGACGGCTACTGAGCACTCCCAGCCCGGGGCCTGCTGCCTCCAGCAGCCACTTCAGAGCCCCGCC
TTTGCCTGCACTCCTCTTGCAGGGCTGGCCCTGCCTGCTCCTGCGGCAGCCTCTGGTGACGTGCTGTCCACCAGG
CCTTGGAGACAGGCTAGCCTGGCCACAGAATTAAACGTGTTGCCACACCTGCCGGCTTCT**TAA**AAAAAAAAAAAAA
AAAAAAAAAAAAAAA

FIGURE 1485

MAVADLALIPDVDIDSDGVFKYVLIRVHSAPRSGLRLQRARRSCAATSGLSTMRTSTTKCRATCRSKAATVSVWA
AGASPTRVRTRRFTCTAIPWPMVLPSTPFQLRKSKPSTPTTRSPGLTTATEHSQPGACCLQQPLQSPAFACTPLA
GLALPAPAAASGDVLSTRPWRQASLATELNVLPHLPAS

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FIGURE 1486

GGCACGAGGGCTGCCTGGCGCTGCGGGCGGCGGGCCATGGTGGTTTGGATTGAGCCGGGCCCCGGCCGGGGCGCCG
AGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTGGCTGACTGGGGAGTCGGCAGGCGG
CAGGAACC**ATG**CGAGGCCAGCGGAGCCTGCTGCTGGGCCCGGCCCGCCTCTGCCTCCGCCTCCTTCTGCTGCTGG
GTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTGCGCT
CCCTGCTCTACAACTCCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGTCTACTGGCTGGTAG
ACAACGTGATCCGCTGGTTTGGAGTGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACC
CCAAGCCAGCCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCACTGCCCCTGGC
TAAACAATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTTTTCATGACTCTGGGCTGTGTCT
ACTGCAGCTATGGAAGTTGGGACCTTTTCCGGGGAGGCTTATGCTGCCATTGAGACTTATCACCAGACCCCACCAC
CCACCTTCTCCTTTCGAGAAAGGATGACTCACAAGAGTCTTGTCTACCTCTGGTTCCTGTGCAGTTCTGTGGCAC
TTGCCCTGGGTGCCCTAACTGTATGGCATGCTGTTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCA
ACAAGAAGGAGAGACGTCGGCTACAGGCCAAGGGCAGAGTATTTAGGAATCCTTACAACTACGGCTGCTTGGACA
ACTGGAAGGTATTCCTGGGTGTGGATACAGGAAGGCACTGGCTTACTCGGGTGCTCTTACCTTCTAGTCACTTGC
CCCATGGGAATGGAATGAGCTGGGAGCCCCCTCCCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTG**TGA**G
CTGGACTGTGTCAGCCACGACTCGAGCACTCATTCTGCTCCCTATGTTATTTCAAGGGCCTCCAAGGGCAGCTTT
TCTCAGAATCCTTGATCAAAAAGAGCCAGTGGGCCTGCCTTAGGGTACCATGCAGGACAATTCAAGGACCAGCCT
TTTTACCACTGCAGAAGAAAGACACAATGTGGAGAAATCTTAGGACTGACATCCCTTTACTCAGGCAAACAGAAG
TTCCAACCCCAGACTAGGGGTCAGGCAGCTAGCTACCTACCTTGCCCAGTGCTGACCCGGACCTCCTCCAGGATA
CAGCACTGGAGTTGGCCACCACCTCTTCTACTTGCTGTCTGAAAAAACACCTGACTAGTACAGCTGAGATCTTGG
CTTCTCAACAGGGCAAAGATACCAGGCCTGCTGCTGAGGTCACTGCCACTTCTCACATGCTGCTTAAGGGAGCAC
AAATAAAGGTATTCGATTTTTAAAGATAAAAAAAAAAAAAAAAAA

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FIGURE 1487

MRGQRSLLLGPARLCLRLLLLLGYRRRCPPLLRGLVQRWRYGKVCLRSLLYNSFGGSDTAVDAAFEPVYWLVDNV
IRWFGVGRNDIATVSICKKCIYPKPARTHHCSICNRCVLKMDHHCPWLNNCVGHYNHRYFFSFCFFMTLGCVYCS
YGSWDLFREAYAAIETYHQTPPPTFSFRERMTHKSLVYLWFLCSSVALALGALTVWHAVLISRGETSIERHINKK
ERRRLQAKGRVFRNPYNYGCLDNWKVFLGVDTGRHWLTRVLLPSSHLPHGNGMSWEPPPWVTAHSASVMAV

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FIGURE 1488A

GAGCCGGTGGCGCAGGTGTCGGGGTCCTCGAGCGCCCAGCCTGGGAGC**ATG**ATTGTGGACAAGCTGCTGGACGAC
AGCCGCGGCGGAGAGGGGCTGCGGGACGCGGCGGGCGGCTGCGGCCTCATGACCAGCCCGCTCAACCTGAGCTAC
TTCTACGGCGCGTCGCCGCCCGCCGCCGCCCCGGGCGCCTGCGACGCCAGCTGCTCGGTCTTGGGCCCCTCGGCG
CCCGGCTCGCCCGGCTCCGACTCCTCCGACTTCTCCTCTGCCTCGTCGGTGTCCTCCTGCGGCGCCGTGGAGTCC
CGGTCGAGAGGCGGCGCCCGCGCCGAGCGCCAGCCAGTTGAGCCCCATATGGGGGTTGGCAGGCAGCAGAGAGGC
CCCTTTCAAGGTGTTCGGGTAAAGAACTCAGTGAAGGAACTCCTGTTGCACATCCGAAGTCATAAACAGAAGGCT
TCTGGCCAAGCTGTGGATGATTTTAAGACACAAGGTGTGAACATAGAACAGTTCAGAGAATTGAAGAACACAGTA
TCATACAGTGGGAAAAGGAAAGGGCCCGATTCGTTGTCTGATGGACCTGCTTGCAAAAGGCCAGCTCTGTTGCAT
TCCCAATTTTTGACACCACCTCAAACACCAACGCCCGGGGAGAGCATGGAAGATGTTCATCTCAATGAACCCAAA
CAGGAGAGCAGTGCTGATCTGCTTCAGAACATTATCAACATTAAGAATGAATGCAGCCCCGTTTCCCTGAACACA
GTTCAAGTTAGCTGGCTGAACCCCGTGGTGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTCAGGACTTCCATGGA
GGGCAGGTCTTTTCTCCACCTCAGAAATGCCAACCATTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAGGCT
TCCCTGTACCAGTATTCTCCACAGAACCAGCATGTAGAGCAGCAGCCACACTACACCCACAAACCAACTCTGGAA
TACAGTCCTTTTCCCATACCTCCCCAGTCCCCCGCTTATGAACCAAACCTCTTTGATGGTCCAGAATCACAGTTT
TGCCCAAACCAAAGCTTAGTTTCCCTTCTTGGTGATCAAAGGGAATCTGAGAATATTGCTAATCCCATGCAGACT
TCCTCCAGTGTTCAGCAGCAAAATGATGCTCACTTGCACAGCTTCAGCATGATGCCCAGCAGCGCCTGTGAGGCC
ATGGTGGGGCACGAGATGGCCTCTGACTCTTCAAACACTTCACTGCCATTCTCAAACATGGGAAATCCAATGAAC
ACCACACAGTTAGGGAAATCACTTTTTCAGTGGCAGGTGGAGCAGGAAGAAAGCAAATTGGCAAATATTTCCCAA
GACCAGTTTCTTTCAAAGGATGCAGATGGTGACACGTTCCTTCATATTGCTGTTGCCCAAGGGAGAAGGGCACTT
TCCTATGTTCTTGCAAGAAAGATGAATGCACTTCACATGCTGGATATTAAAGAGCACAATGGACAGAGTGCCTTT
CAGGTGGCAGTGGCTGCCAATCAGCATCTCATTGTGCAGGATCTGGTGAACATCGGGGCACAGGTGAACACCACA
GACTGCTGGGGAAGAACACCTCTGCATGTGTGTGCTGAGAAGGGCCACTCCCAGGTGCTTCAGGCGATTCAGAAG
GGAGCAGTGGGAAGTAATCAGTTTGTGGATCTTGAGGCAACTAACTATGATGGCCTGACTCCCCTTCACTGTGCA
GTCATAGCCCACAATGCTGTGGTCCATGAACTCCAGAGAAATCAACAGCCTCATTCACCTGAAGTTCAGGAGCTT
TTACTGAAGAATAAGAGTCTGGTTGATACCATTAAGTGCCTAATTCAAATGGGAGCAGCGGTGGAAGCGAAGGAT
CGCAAAAGTGGCCGCACAGCCCTGCATTTGGCAGCTGAAGAAGCAAATCTGGAACTCATTCGCCTCTTTTTGGAG
CTGCCCAGTTGCCTGTCTTTTGTGAATGCAAAGGCTTACAATGGCAACACTGCCCTCCATGTTGCTGCCAGCTTG
CAGTATCGGTTGACACAATTAGATGCTGTCCGCCTGTTGATGAGGAAGGGAGCAGACCCAAGTACTCGGAACTTG
GAGAACGAACAGCCAGTGCATTTGGTTCCCGATGGCCCTGTGGGAGAACAGATCCGACGTATCCTGAAGGGAAAG
TCCATTCAGCAGAGAGCTCCACCGTAT**TAG**CTCCATTAGCTTGGAGCCTGGCTAGCAACACTCACTGTCAGTTAG
GCAGTCCTGATGTATCTGTACATAGACCATTTGCCTTATATTGGCAAATGTAAGTTGTTTCTATGAAACAAACAT
ATTTAGTTCACTATTATATAGTGGGTTATATTAAAAGAAAAGAAGAAAAATATCTAATTTCTCTTGGCAGATTTG
CATATTTCATACCCAGGTATCTGGGATCTAGACATCTGAATTTGATCTCAATGGTAACATTGCCTTCAATTAACA
GTAGCTTTTGAGTAGGAAAGGACTTTGATTTGTGGCACAAAACATTATTAATATAGCTATTGACAGTTTCAAAGC
AGGTAAATTGTAAATGTTTCTTTAAGAAAAAGCATGTGAAAGGAAAAAGGTAAATACAGCATTGAGGCTTCATTT
GGCCTTAGTCCCTGGGAGTTACTGGCGTTGGACAGGCTTCAGTCATTGGACTAGATGAAAGGTGTCCATGGTTAG
AATTTGATCTTTGCAAACTGTATATAATTGTTATTTTTGTCCTTAAAAATATTGTACATACTTGGTTGTTAACAT
GGTCATATTTGAAATGTATAAGTCCATAAAATAGAAAAGAACAAGTGAATTGTTGCTATTTAAAAAAATTTTACA
ATTCTTACTAAGGAGTTTTTATTGTGTAATCACTAAGTCTTTGTAGATAAAGCAGATGGGGAGTTACGGAGTTGT
TCCTTTACTGGCTGAAAGATATATTCGAATTGTAAAGATGCTTTTTCTCATGCATTGAAATTATACATTATTTGT
AGGGAATTGCATGCTTTTTTTTTTTTTCTCCCGAGACAGGGTCTTGCTCTGGCGCCCAGGCTGGAGTACAGTGG
CATGATCTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCCTACCTGAGCCTTCTGAGTAACTGGGAC
TACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTATTTTTTGTACAGGCAGGATCTTGCCACCTTGCCCAGGCTG
GTCTTGAACTCCTGAGCTCATGCCATCTGCCTGCCTTAGTCTCCCAAAATGCTGGGATTACAGGAGTGAGCCACC
ATGCCCGGCTGGCAGTTGCATGGAAGAGAACACCTCTTTATGGCTTACCCTCTAGAATTTCTAATTTATGTGTTC
TGTTGAAATTTTTGTTTTTTTACCTTTATTGAAACAACAAAAAGTCAGTATTGAAACATATCTTCCTGTTTTCTG
TTGTCAAATGATGATAATGTGCCATGATGTTTTATATATATCATTCAGAAAAAGTTTTATTTTTTAATAACATTC
TATTAACATTATTTTGCTTGCCGCTGGCATGCCTGAGGAATGTATTTGGCTTTGATTACACACTAAGTTTTTGTA

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FIGURE 1488B

ATAAATTTGACTCATTAAAAACCTTTTTTTTTTAAAAAAAAAAAAAAAGAAAATCTCATTAGTGAACTTATCTTTG
CAGCTGAGTACTTAAATTCTTTTTAAAAAGATACCCTTTGGATTGATCACATTGTTTGACCCAGTATGTCTTGTA
GACACGTTAGTTATAATCACCTTGTATCTCTAAATATGGTGTGATATGAACCAGTCCATTCACATTGGAAAAACT
GATGGTTTTAAATAAACTAATTCACTAATAAAAAAAAAAAAAAA

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FIGURE 1489

MIVDKLLDDSRGGEGLRDAAGGCGLMTSPLNLSYFYGASPPAAAPGACDASCSVLGPSAPGSPGSDSSDFSSASS
VSSCGAVESRSRGGARAERQPVEPHMGVGRQQRGPFQGVRVKNSVKELLLHIRSHKQKASGQAVDDFKTQGVNIE
QFRELKNTVSYSGKRKGPDSLSDGPACKRPALLHSQFLTPPQTPTPGESMEDVHLNEPKQESSADLLQNIINIKN
ECSPVSLNTVQVSWLNPVVVPQSSPAEQCQDFHGGQVFSPPQKCQPFQVRGSQQMIDQASLYQYSPQNQHVEQQP
HYTHKPTLEYSPFPIPPQSPAYEPNLFDGPESQFCPNQSLVSLLGDQRESENIANPMQTSSSVQQQNDAHLHSFS
MMPSSACEAMVGHEMASDSSNTSLPFSNMGNPMNTTQLGKSLFQWQVEQEESKLANISQDQFLSKDADGDTFLHI
AVAQGRRALSYVLARKMNALHMLDIKEHNGQSAFQVAVAANQHLIVQDLVNIGAQVNTTDCWGRTPLHVCAEKGH
SQVLQAIQKGAVGSNQFVDLEATNYDGLTPLHCAVIAHNAVVHELQRNQQPHSPEVQELLLKNKSLVDTIKCLIQ
MGAAVEAKDRKSGRTALHLAAEEANLELIRLFLELPSCLSFVNAKAYNGNTALHVAASLQYRLTQLDAVRLLMRK
GADPSTRNLENEQPVHLVPDGPVGEQIRRILKGKSIQQRAPPY

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FIGURE 1490

ATGGGGAGGTCCTCCATGCGCAGTC**ATG**AGTCGCTTCAAGTTTATCGATATTGGTATCAACTTGACTGACCCTAT
GTTCAGAGGAATTTATAGGGGGGTTCAAAAGCATCAAGATGACTTACAGGATGTAATAGGGAGAGCTGTCGAGAT
TGGTGTTAAAAAGTTTATGATTACAGGTGGAAATCTACAAGACAGTAAAGATGCACTGCATTTGGCACAAACAAA
TGGTATGTTTTTCAGTACAGTTGGATGTCATCCTACAAGATGTGGTGAATTTGAAAAGAATAACCCTGATCTTTA
CTTAAAGGAGTTGCTAAATCTTGCTGAAAACAATAAAGGGAAAGTTGTGGCAATAGGAGAATGCGGACTTGATTT
TGACCGACTGCAGTTTTGTCCCAAAGATACTCAACTCAAATATTTTGAAAAACAGTTTGAACTGTCAGAACAAAC
AAAATTACCAATGTTTCTTCATTGTCGAAACTCACATGCTGAATTTTTGGACATAATGAAAAGAAATAGAGATCG
GTGTGTAGGGGGAGTGGTGCATTCATTTGATGGTACCAAGGAAGCAGCAGCTGCTTTGATTGACTTGGATCTTTA
TATAGGATTTAATGGTTGCTCACTGAAAACTGAAGCTAATTTGGAAGTTTTGAAGTCAATTCCTAGTGAAAAATT
AATGATTGAGACAGATGCACCTTGGTGTGGAGTCAAAAGTACACATGCTGGATCAAAATATATAAGAACTGCATT
TCCTACCAAAAAGAAGTGGGAAAGTGGGCACTGCTTAAAAGACAGA**A**ATGAACCCTGCCATATAATTCAAATATT
GGAGATAATGTCAGCAGTGAGAGATGAGGATCCACTGGAATTAGCCAATACACTATATAACAATACTATTAAAGT
ATTTTTTCCTGGAATA**TAA**TTGGTATATGTCTTCCACTTTCCATCATGTATGTAAAATTTCATAGTAAAACTTCC
TGATAGTTTCAATAAAGAAATTATCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1491

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MSRFKFIDIGINLTDPMFRGIYRGVQKHQDDLQDVIGRAVEIGVKKFMITGGNLQDSKDALHLAQTNGMFFSTVG
CHPTRCGEFEKNNPDLYLKELLNLAENNKGKVVAIGECGLDFDRLQFCPKDTQLKYFEKQFELSEQTKLPMFLHC
RNSHAEFLDIMKRNRDRCVGGVVHSFDGTKEAAAALIDLDLYIGFNGCSLKTEANLEVLKSIPSEKLMIETDAPW
CGVKSTHAGSKYIRTAFPTKKKWESGHCLKDRNEPCHIIQILEIMSAVRDEDPLELANTLYNNTIKVFFPGI
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FIGURE 1492

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CGGAGCCCCTCGGCGGCGCCCGGCCCAGGACCCGCCTAGGAGCGCAGGAGCCCCAGCGCAGAGACCCCAACGCCG
AGACCCCCGCCCCGGCCCCGCCGCGCTTCCTCCCGACGCAGAGCAAACCGCCCAGAGTAGAAGATGGATTGGGGC
ACGCTGCAGACGATCCTGGGGGGTGTGAACAAACACTCCACCAGCATTGGAAAGATCTGGCTCACCGTCCTCTTC
ATTTTTCGCATTATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGGAGATGAGCAGGCCGACTTTGTCTGCAAC
ACCCTGCAGCCAGGCTGCAAGAACGTGTGCTACGATCACTACTTCCCCATCTCCCACATCCGGCTATGGGCCCTG
CAGCTGATCTTCGTGTCCACGCCAGCGCTCCTAGTGGCCATGCACGTGGCCTACCGGAGACATGAGAAGAAGAGG
AAGTTCATCAAGGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAAAACCCAGAAGGTCCGCATCGAA
GGCTCCCTGTGGTGGACCTACACAAGCAGCATCTTCTTCCGGGTCATCTTCGAAGCCGCCTTCATGTACGTCTTC
TATGTCATGTACGACGGCTTCTCCATGCAGCGGCTGGTGAAGTGCAACGCCTGGCCTTGTCCCAACACTGTGGAC
TGCTTTGTGTCCCGGCCCACGGAGAAGACTGTCTTCACAGTGTTCATGATTGCAGTGTCTGGAATTTGCATCCTG
CTGAATGTCACTGAATTGTGTTATTTGCTAATTAGATATTGTTCTGGGAAGTCAAAAAAGCCAGTTTAACGCATT
GCCCAGTTGTTAGATTAAGAAATAGACAGCATGAGAGGGATGAGGCAACCCGTGCTCAGCTGTCAAGGCTCAGTC
GCCAGCATTTCCCAACACAAAGATTCTGACCTTAAATGCAACCATTTGAAACCCCTGTAGGCCTCAGGTGAAACT
CCAGATGCCACAATGGAGCTCTGCTCCCCTAAAGCCTCAAAACAAAGGCCTAATTCTATGCCTGTCTTAATTTTC
TTTCACTTAAGTTAGTTCCACTGAGACCCCAGGCTGTTAGGGGTTATTGGTGTAAGGTACTTTCATATTTTAAAC
AGAGGATATCGGCATTTGTTTCTTTCTCTGAGGACAAGAGAAAAAAGCCAGGTTCCACAGAGGACACAGAGAAGG
TTTGGGTGTCCTCCTGGGGTTCTTTTTGCCAACTTTCCCCACGTTAAAGGTGAACATTGGTTCTTTCATTTGCTT
TGGAAGTTTTAATCTCTAACAGTGGACAAAGTTACCAGTGCCTTAAACTCTGTTACACTTTTTGGAAGTGAAAAC
TTTGTAGTATGATAGGTTATTTTGATGTAAAGATGTTCTGGATACCATTATATGTTCCCCCTGTTTCAGAGGCTC
AGATTGTAATATGTAAATGGTATGTCATTCGCTACTATGATTTAATTTGAAATATGGTCTTTTGGTTATGAATAC
TTTGCAGCACAGCTGAGAGGCTGTCTGTTGTATTCATTGTGGTCATAGCACCTAACAACATTGTAGCCTCAATCG
AGTGAGACAGACTAGAAGTTCCTAGTGATGGCTTATGATAGCAAATGGCCTCATGTCAAATATTTAGATGTAATT
TTGTGTAAGAAATACAGACTGGATGTACCACCAACTACTACCTGTAATGACAGGCCTGTCCAACACATCTCCCTT
TTCCATGACTGTGGTAGCCAGCATCGGAAAGAACGCTGATTTAAAGAGGTCGCTTGGGAATTTTATTGACACAGT
ACCATTTAATGGGGAGGACAAAATGGGGCAGGGGAGGGAGAAGTTTCTGTCGTTAAAAACAGATTTGGAAAGACT
GGACTCTAAATTCTGTTGATTAAAGATGAGCTTTGTCTACTTCAAAAGTTTGTTTGCTTACCCCTTCAGCCTCCA
ATTTTTTAAGTGAAAATATAACTAATAACATGTGAAAAGAATAGAAGCTAAGGTTTAGATAAATATTGAGCAGAT
CTATAGGAAGATTGAACCTGAATATTGCCATTATGCTTGACATGGTTTCCAAAAAATGGTACTCCACATACTTCA
GTGAGGGTAAGTATTTTCCTGTTGTCAAGAATAGCATTGTAAAAGCATTTTGTAATAATAAAGAATAGCTTTAAT
GATATGCTTGTAACTAAAATAATTTTGTAATGTATCAAATACATTTAAAACATTAAAATATAATCTCTATAATAA
AAAAAAAAAAAAA
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FIGURE 1493

MDWGTLQTILGGVNKHSTSIGKIWLTVLFIFRIMILVVAAKEVWGDEQADFVCNTLQPGCKNVCYDHYFPISHIR
LWALQLIFVSTPALLVAMHVAYRRHEKKRKFIKGEIKSEFKDIEEIKTQKVRIEGSLWWTYTSSIFFRVIFEAAF
MYVFYVMYDGFSMQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMIAVSGICILLNVTELCYLLIRYCSGKSKKP
V

FIGURE 1494

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GAGGCGCCGGCGGCCACGCCGCGGAAGGCGCGGGCCGAGCAGAGCCGGGCGTTGGAGCCCGCGCGCGCATGGAGG
CGTTGCCGGCAGCCCCCTGAGGGCAGCGGGGAGACAAGACCCGGCGACCTCGCGCATCCCTCGAGCCGCCACGCG
CTCTCGCCACCGGGCGGCGACGGGCCGCGGAGCCGGCGCGGCCATGGCGACGGGCGGCCAGCAGAAGGAGAACAC
GCTGCTTCACCTCTTCGCCGGCGGGTGTGGAGGCACAGTTGGTGCTATTTTCACTTGTCCACTAGAAGTCATTAA
GACACGGTTGCAGTCTTCAAGATTAGCTCTCCGGACAGTCTACTATCCTCAGGTTCATCTGGGGACCATTAGTGG
AGCTGGAATGGTGAGACCAACATCCGTGACACCTGGACTCTTTCAGGTTCTGAAGTCGATCTTGGAGAAAGAGGG
ACCAAAGTCACTTTTTAGAGGCTTGGGTCCAAATTTGGTTGGAGTTGCACCATCAAGGGCTGTATACTTTGCATG
TTACTCCAAAGCCAAAGAGCAATTTAATGGCATTTTCGTGCCTAACAGCAATATTGTGCATATTTTCTCAGCTGG
CTCTGCAGCTTTTATCACAAATTCCTTAATGAATCCTATATGGATGGTTAAAACCCGAATGCAGCTAGAACAGAA
AGTGAGGGGCTCTAAGCAGATGAATACACTCCAGTGTGCTCGTTACGTTTACCAGACCGAAGGCATTCGTGGCTT
CTATAGAGGATTAACTGCCTCGTATGCTGGAATTTCCGAAACTATAATCTGCTTTGCTATTTATGAAAGTTTAAA
GAAGTATCTGAAAGAAGCTCCATTAGCCTCTTCTGCAAATGGGACTGAGAAAAATTCCACAAGTTTTTTTGGACT
TATGGCAGCTGCTGCTCTTTCTAAGGGCTGTGCCTCCTGCATTGCTTATCCACACGAAGTCATAAGGACGAGGCT
CCGGGAAGAGGGCACCAAGTACAAGTCTTTTGTCCAGACGGCGCGCCTGGTGTTCCGGGAAGAAGGCTACCTTGC
CTTTTATAGAGGACTGTTTGCCCAGCTTATCCGGCAGATCCCAAATACTGCCATTGTGTTGTCTACTTATGAGTT
AATTGTGTACCTGTTAGAAGACCGTACTCAGTAACAGGCCGGAAAATTGTGCTCTAGAAGAATAAAACTGAAAAA
CTCTAGAGAATTTTTTTTCCCCATTGATGTTTAGAAAGTTTGAGACTGAAACAGGAAAGGCCATAAAATATCTGG
TTCATATCACCTGTTGGACATTTCCTTTTGGATTCATGCTTTCTGGAAGGTTTAAATTCATTAACGTTAATAGTT
AATTATAACTTTTTTTTAACTTAAGAGGATTCAGGGTTAAGCACCAACTAAATTAAATCATGCTATTTAATTTAA
GTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACC
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FIGURE 1495

MATGGQQKENTLLHLFAGGCGGTVGAIFTCPLEVIKTRLQSSRLALRTVYYPQVHLGTISGAGMVRPTSVTPGLF
QVLKSILEKEGPKSLFRGLGPNLVGVAPSRAVYFACYSKAKEQFNGIFVPNSNIVHIFSAGSAAFITNSLMNPIW
MVKTRMQLEQKVRGSKQMNTLQCARYVYQTEGIRGFYRGLTASYAGISETIICFAIYESLKKYLKEAPLASSANG
TEKNSTSFFGLMAAAALSKGCASCIAYPHEVIRTRLREEGTKYKSFVQTARLVFREEGYLAFYRGLFAQLIRQIP
NTAIVLSTYELIVYLLEDRTQ

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FIGURE 1496

GGCAGCCGTCTGTGCCACCCAGAGCCGGCGGGCCGCTAGGTCCCCGGAGACCCTGCT**ATG**GTGCGTGCGGGCGCC
GTGGGGGCTCATCTCCCCGCGTCCGGCTTGGATATCTTCGGGGACCTGAAGAAGATGAACAAGCGCCAGCTCTAT
TACCAGGTTTTAAACTTCGCCATGATCGTGTCTTCTGCACTCATGATATGGAAAGGCTTGATCGTGCTCACAGGC
AGTGAGAGCCCCATCGTGGTGGTGCTGAGTGGCAGTATGGAGCCGGCCTTTCACAGAGGAGACCTCCTGTTCCTC
ACAAATTTCCGGGAAGACCCAATCAGAGCTGGTGAAATAGTTGTTTTTAAAGTTGAAGGACGAGACATTCCAATA
GTTCACAGAGTAATCAAAGTTCATGAAAAAGATAATGGAGACATCAAATTTCTGACTAAAGGAGATAATAATGAA
GTTGATGATAGAGGCTTGTACAAAGAAGGCCAGAACTGGCTGGAAAAGAAGGACGTGGTGGGAAGAGCAAGAGGG
TTTTTACCATATGTTGGTATGGTCACCATAATAATGAATGACTATCCAAAATTCAAGTATGCTCTTTTGGCTGTA
ATGGGTGCATATGTGTTACTAAAACGTGAATCC**TAA**AATGAGAAGCAGTTCCTGGGACCAGATTGAAATGAATTC
TGTTGAAAAAGAGAAAAACTAATATATTTGAGATGTTCCATTTTCTGTATAAAAGGGAACAGTGTGGAGATGTTT
TTGTCTTGTCCAAATAAAAGATTCACCAGTAAAAAAAAAAAAAAA

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FIGURE 1497

MVRAGAVGAHLPASGLDIFGDLKKMNKRQLYYQVLNFAMIVSSALMIWKGLIVLTGSESPIVVVLSGSMEPAFHR
GDLLFLTNFREDPIRAGEIVVFKVEGRDIPIVHRVIKVHEKDNGDIKFLTKGDNNEVDDRGLYKEGQNWLEKKDV
VGRARGFLPYVGMVTIIMNDYPKFKYALLAVMGAYVLLKRES

FIGURE 1498

GCGGAGCCGGGGCTGGAGAGCGGCGACCACTGCGGATCTCGGAAGGAAGAAATGATGTAAATCACTCATCCAAAC
TTTAAGGTCAAAGGTGAGAAGGAAGGTCAGGAAGAAC**ATG**GCCTGGCCAAATGTTTTTCAAAGAGGGTCTCTGCT
GTCCCAGTTCAGCCATCATCATGTTGTAGTGTTCCTGCTCACTTTCTTCAGTTATTCGTTGCTCCATGCTTCACG
AAAAACATTTAGCAATGTCAAAGTCAGTATCTCTGAGCAGTGGACCCCAAGTGCTTTTAACACGTCAGTTGAGCT
GCCTGTGGAGATCTGGAGCAGCAACCATTTGTTCCCCAGTGCAGAGAAAGCGACTCTTTTCCTCGGCACACTGGA
TACCATTTTCCTCTTCTCCTATGCTGTGGGCCTATTCATCAGTGGCATCGTTGGGGATCGGTTGAATTTGCGATG
GGTTCTGTCTTTTGGCATGTGCTCTTCTGCATTAGTGGTGTTTGTCTTTGGTGCGCTCACAGAATGGCTGCGTTT
CTACAACAAATGGCTGTACTGCTGCCTGTGGATTGTGAACGGCCTGCTGCAGTCCACTGGTTGGCCCTGTGTGGT
TGCTGTTATGGGCAACTGGTTTGGGAAAGCCGGACGAGGAGTTGTTTTTGGTCTCTGGAGTGCCTGTGCTTCGGT
GGGCAACATTTTGGGAGCGTGCCTAGCTTCTTCTGTTCTTCAGTATGGTTATGAGTATGCCTTTCTGGTGACGGC
GTCTGTGCAGTTTGCTGGTGGGATCGTTATCTTCTTTGGACTCCTGGTGTCACCAGAAGAAATTGGTCTCTCGGG
TATTGAGGCAGAAGAAAACTTTGAAGAAGACTCACACAGGCCATTAATTAATGGTGGTGAAAATGAAGACGAATA
TGAGCCGAATTATTCAATCCAAGATGATAGTTCTGTTGCCCAAGTCAAGGCGATAAGCTTCTACCAGGCATGTTG
CCTTCCTGGAGTCATACCGTACTCACTGGCCTACGCCTGCTTGAAGTTAGTGAATTACTCCTTCTTCTTCTGGCT
CCCCTTTTATCTGAGTAACAACTTCGGCTGGAAGGAGGCGGAAGCCGACAAGCTGTCCATTTGGTACGACGTTGG
AGGGATCATAGTATTTAGTGTCTCTGATCCGGGACAAGCTAGGATGGATGTGGGTTTTCTACTTTTTCATTCTCA
TGACAAGTTGTACAATTGTGTTTATCTCGCCATTAATAGTGAGGGAAATATTCTCTCTCGTGCTAAGGAGACAGG
CTCACATATTGAGGGAGTGACCGGTGCCCGCGAGACAGAAAGAACAATGTCAGCCACATCAGGACCGCTGGGGCT
TCGAGTCTGCCCTAATTTGGGTTTGTCTAGGAGCTCCAGCCTGATCTTGGATTGTCAGGCGTCTCTCAACACTGC
CAGCCACCTGAGATGC**TGA**CCAGCAGTGAAGGCTGCACTAGTTTTCTACACTACAGGAATTACTGTTGATGATTT
TTGCTGTTGTTTCATGAATGTGCCGAGTGACTTCTGACTCTGCCAGCATCTTTGACCTCTGACTCTGCCCGCGTC
TTTGTTTGGCCTATTGAGGTTTAGCGTTTTAACCTTAACTGTTGTTTTGGACTTGAACTTTCTCTAGCCTTGAAA
ATGGAGTGAACAGGAGGCAAAGCCACGCGTGGTTTGTGTTGGTGGTATGTTCCACAAATGGAAGAGATCATTGCA
TTTTGCTTTGGTAATGAGTTTACAGAGAGTGGGTCATCTTTGAAGCATCAAATCCTGATCAAATGCTCAAGCTGG
ACCGAGCTGCAAGCCTGCCTTGGACAAAGAATCCCTCTGTTCACTGTGGTGGGAAAGATCACACTACATGCCTGT
TGATTGGCTCAGTCACTCTGTGTCTGATCTAAACGTCATTCAGCCCTAGAAGCATGAATTGCTTCAAATTATTGT
CAACTTGTTCTCTTCCATTTTCATTCAAATTAACTTTGACTCCTGGAAGTATTGAGTCTTCCTTTCAAGGACCAT
AAGGTACATCAGTTATCTTGAACATTCTGACGTGTAAAGGACCATAAGGTACATCATTTATCTTGAACATTCCGA
CGTGTAACTCACAGCCGAAGCACTCCATCCCAGATTTGTTGTCTGGGAACTTTAGGATCCTCTAGGAAGCTAATC
TGCTTAGTCTATTTTTAGAGGATTGATCTCTGGCACAACCAGCTTCCTGGAGTTACCTCAGCAGAAGACTAGAAT
TAGAGAAAAGGGAAAGACCTTTTCTTCTAGTAAGTGTCAAGTACAGATGCTCTTTGACTTATGATGGGGTTATGT
CCCAGTAAACCCATTGGAAGTCAAATGCATTTAATACCCCTGACTGGACACCACAGCTTAGCCTCGTCCACCCTA
AATGTACTCAGAACACTTAGAATTGCCCACAGTTGGGCAGAATCATCTAACACAAACTCTATTTTATAATCGAGT
GTTGAATATATCATGTAATTTATTGAATATTGTACATTATGTTGAAATTGCAACCATTTCACACCATTGTAAAGT
CCAAAAATCAGAAGCTGAGGACTGTCTGTACATGACATTGAATCACATGAATGGATTACTAGGGCCTGAGGGGTG
TCCGTTCTTTAGAAAAATGTAGAGTATATATATCTTCAGGGCTGTGAATTCCATACTAGTTATCAATATTTTAAG
ATCATTCTGTATATACATATTTTAAATTATGCAAGCAAACTAGGAGGAGAATGTGCAATTTTGAGGGATACCTAA
TTTGCATTCGGTTAGGGGATATTTTTCAACCTCTTGCTTTATACTCTGATATGGGGTGTGTTTATGAACTTGTTA
ATGTTATTTAATCATGCAGATTTCCAATCAGTGTATTGCTCATTTACTGACAAAAAGGGAAAATACGAAACACAG
AAAGGGAAAATAAACTGACTTTTATAATGAAAAAAAAAAAAAAAAAA

FIGURE 1499

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MAWPNVFQRGSLLSQFSHHHVVVFLLTFFSYSLLHASRKTFSNVKVSISEQWTPSAFNTSVELPVEIWSSNHLFP
SAEKATLFLGTLDTIFLFSYAVGLFISGIVGDRLNLRWVLSFGMCSSALVVFVFGALTEWLRFYNKWLYCCLWIV
NGLLQSTGWPCVVAVMGNWFGKAGRGVVFGLWSACASVGNILGACLASSVLQYGYEYAFLVTASVQFAGGIVIFF
GLLVSPEEIGLSGIEAEENFEEDSHRPLINGGENEDEYEPNYSIQDDSSVAQVKAISFYQACCLPGVIPYSLAYA
CLKLVNYSFFFWLPFYLSNNFGWKEAEADKLSIWYDVGGIIVFSVSDPGQARMDVGFLLFHSHDKLYNCVYLAIN
SEGNILSRAKETGSHIEGVTGARETERTMSATSGPLGLRVCPNLGLSRSSSLILDCQASLNTASHLRC
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FIGURE 1500

GTCAGGTGGCGTTTGCTGTGGCGGCTAGGCCCGCGTGCGCTGGAGACCTCCGCGCTGGCCCCCGCGAGCCTCCTG
CCCTGGCCCGGCGCTGCGGCTCTGCCGCGGCGGCAGC**ATG**GGTGGCCCCCGGGGCGCGGGCTGGGTGGCGGCGGG
CCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGGGTCGGCGGCGGGGCGACCGCGAGCT
CGGGATACGCTCTTCGAAGTCCGCAGAAGACTTAACTGATGGTTCATATGATGATGTTCTAAATGCTGAACAACT
TCAGAAACTCCTTTACCTGCTGGAGTCAACGGAGGATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAA
CAATGCAGCCTTTTCAGTTAACCAAGCTATTATTCGTGAATTGGGTGGTATTCCAATTGTTGCAAACAAAATCAA
CCATTCCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACCTGAGTGTGAATGTTGAAAATCAAAT
CAAGATAAAGATATACATCAGTCAAGTATGTGAGGATGTCTTCTCTGGTTCTCTGAACTCTGCTGTGCAGCTGGC
TGGACTGACATTGTTGACAAACATGACTGTTACCAATGACCACCAGCACATGCTTCACAGTTACATTACAGACCT
GTTCCAGGTGTTACTTACTGGAAATGGAAACACGAAGGTGCAAGTTTTGAAACTGCTTTTGAATTTGTCTGAAAA
TCCAGCCATGACAGAAGGACTTCTCCGTGCCCAAGTGGATTCATCATTCCTTTCCCTTTATGACAGCCACGTAGC
AAAGGAGATTCTTCTTCGAGTACTTACGCTATTTCAGAATATAAAGAACTGCCTCAAAATAGAAGGCCATTTAGC
TGTGCAGCCTACTTTCACTGAAGGTTCATTGTTTTTCCTGTTACATGGAGAAGAATGTGCCCAGAAAATAAGAGC
TTTAGTTGATCACCATGATGCAGAGGTGAAGGAAAAGGTTGTAACAATAATACCCAAAATC**TGA**TTGGTCATATT
TTTCCAAAGAGTAATGCAGTCTGGATATAAATGTATTTTCTGTCTTCCTTATAAGGGGATTCTCCCAGCTGCTAA
ATTTAAACAGTAAATATCACATTTTGTCATTAACACAGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1501

MGGPRGAGWVAAGLLLGAGACYCIYRLTRGRRRGDRELGIRSSKSAEDLTDGSYDDVLNAEQLQKLLYLLESTED
PVIIERALITLGNNAAFSVNQAIIRELGGIPIVANKINHSNQSIKEKALNALNNLSVNVENQIKIKIYISQVCED
VFSGSLNSAVQLAGLTLLTNMTVTNDHQHMLHSYITDLFQVLLTGNGNTKVQVLKLLLNLSENPAMTEGLLRAQV
DSSFLSLYDSHVAKEILLRVLTLFQNIKNCLKIEGHLAVQPTFTEGSLFFLLHGEECAQKIRALVDHHDAEVKEK
VVTIIPKI

FIGURE 1502

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GGCACGAGGCCCAGGTAATTTGAGCAAAGGCCACAGTGAACTCCGGCGTGGCTGAGGAAGGAGGAGGCACCCACA
GGCTGCTGGGAGGAGAGCATAAGGCTCAAAATGGAAAATCATAAATCCAATAATAAGGAAAACATAACAATTGTT
GATATATCCAGAAAAATTAACCAGCTTCCAGAAGCAGAAAGGAATCTACTTGAAAATGGATCGGTTTATGTTGGA
TTAAATGCTGCTCTTTGTGGCCTCATAGCAAACAGTCTTTTTCGACGCATCTTGAATGTGACAAAGGCTCGCATA
GCTGCTGGCTTACCAATGGCAGGGATACCTTTTCTTACAACAGACTTAACTTACAGATGTTTTGTAAGTTTTCCT
TTGAATACAGGTGATTTGGATTGTGAAACCTGTACCATAACACGGAGTGGACTGACTGGTCTTGTTATTGGTGGT
CTATACCCTGTTTTCTTGGCTATACCTGTAAATGGTGGTCTAGCAGCCAGGTATCAATCAGCTCTGTTACCACAC
AAAGGGAACATCTTAAGTTACTGGATTAGAACTTCTAAGCCTGTCTTTAGAAAGATGTTATTTCCTATTTTGCTC
CAGACTATGTTTTCAGCATACCTTGGGTCTGAACAATATAAACTACTTATAAAGGCCCTTCAGTTATCTGAACCT
GGCAAAGAAATTCACTGATTTTAAACAAATATGTAAACAAAAATAAAATGGTAAAAACAGAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1503

MENHKSNNKENITIVDISRKINQLPEAERNLLENGSVYVGLNAALCGLIANSLFRRILNVTKARIAAGLPMAGIP
FLTTDLTYRCFVSFPLNTGDLDCETCTITRSGLTGLVIGGLYPVFLAIPVNGGLAARYQSALLPHKGNILSYWIR
TSKPVFRKMLFPILLQTMFSAYLGSEQYKLLIKALQLSEPGKEIH

FIGURE 1504

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CTGCCAGCACTTAACTTTTCCCCCTACCCTGCTCCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCTCAGCCACTT
CCTTCCTTCGCCTCACCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCG
GCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCA
TCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATAAATGTGC
CAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCT
GCTTCTGCAAGGTGTTCATGATGATGTTGACATTATATTACTGCAAGAT**TAA**TGTGGTTTACATATCTTTATGTA
CTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTT
ATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGAAAATCTATG
TATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGC
GGGGCAGGGATGGGAATGTTTGTTCATAAATAATTAGACATTTCTATAGATATTTGACATTCTGCGAAAGCAAC
AAGCAAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCAAATTTA
AAAAAAAAAAAAAAAAAAA
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FIGURE 1505

CQHLTFPPTLLLLLHSRLSLCLSHFLPSPHPPQCTEEGNRVQTHAAPVLRREGKPRREAAMNVDHEVNLLVEEIH
RLGSKNADGKLSVKFGVLFRDDKCANLFEALVGTLKAAKRRKIVTYPGELLLQGVHDDVDIILLQD

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FIGURE 1506A

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CCTGCGGCTCCCCCGGCTTTCGGAGCCCGGGGGCGGCCTGTGGCGCGCGGAGCCCGCGCCGGACTGCGCCTCTTT
GGACCTTGAGGGGAAACATGCGTTTGCSKWGGATCRWTTGAAATTCTGAGKYTRGGATMCSMGSCCGCCYGCCTG
MYTCKKCCGMSSCGCGGGYTTTTTCSTATTTTTCCTTTTGCTTTTTTTCCTTTTCTCCCTCCGGGTCTCCTTTTT
GACTCCCTCCCCCTTTATGCTCGCCCAGCCCTCCCCCTGCTGCTGAGAAGTGGGGGAGGGTCTCGGCCTCCAGGT
TCCCGCCCCACCGGGGCCCGGGCGAGCATGGGGGGCAAGCAGAGCACGGCGGCCCGCTCCCGGGGGCCCCTTCCCG
GGGGTCTCCACCGATGACAGCGCCGTGCCGCCGCCGGGAGGGGCGCCCCATTTCGGGCACTACCGGACGGGCGGC
GGGGCCATGGGGCTGCGCAGCCGCTCGGTCAGCTCGGTGGCAGGCATGGGCATGGACCCCAGCACGGCCGGGGGG
GTGCCCTTTGGCCTCTACACCCCCGCCTCCCGGGGCACCGGCGACTCCGAGAGGGCGCCCGGCGGCGGAGGGTCT
GCGTCCGACTCCACCTATGCCCATGGCAATGGTTACCAGGAGACGGGCGGCGGTCACCATAGAGACGGGATGCTG
TACCTGGGCTCCCGAGCCTCGCTGGCGGATGCTCTACCTCTGCACATCGCACCCAGGTGGTTCAGCTCGCATAGT
GGTTTCAAGTGCCCCATTTGCTCCAAGTCTGTGGCTTCTGACGAGATGGAAATGCACTTTATAATGTGTTTGAGC
AAACCTCGCCTCTCCTACAACGATGATGTGCTGACTAAAGACGCGGGTGAGTGTGTGATCTGCCTGGAGGAGCTG
CTGCAGGGGGACACGATAGCCAGGCTGCCCTGCCTGTGCATCTATCACAAAAGCTGCATAGACTCGTGGTTTGAA
GTGAACAGATCTTGTCCGGAACACCCTGCGGACTGACCTGCGGGCTTGCTTGCTGACTCCTCTCAAAGGGACAGA
GCGCCCCTGCTCCAGGGAGGAGGCTCACCGGACCCTGGGGCAGAGCTGAGCTTGGGACACCAGCGGGAACAGGGC
ACCCCTTCTGCACTGACTTCCAGATCATGGTTCTCCCTTCCTCCCTGAGGACACCAAATTGGATGAGAGCAAGTT
TGAGAGAAGAATGAATCAACTGCTATCCTTCCCCTCACCCCTCAGCCCAGGAGGGAAAGGGCATTTTCTTTTTCA
TCTTTGAAAGGCATTGTGGGTCTGTCTTTAAAGTGTTTACAAAAAAAATTATATAAAAAAAAAGTCTAGTGTCG
ACTGGTGTTTTCCCTCGTGATGTTTACAGCTTGCTGTTTGCTGCCCAGCCATAACCCACTCAGTGACAGACGAAC
ACAGCTAAGGCCTCGCTGCCAGCCTTCTGACGGCGGGCGAGCACACGGTCTCTTCCCCTGCCCCAACTGGCCCTC
TCCACCACCAACTTCTCTACTTTGGGTTTGTTTGGTTTTTTCCCTCTATTTTTCTGGCTGGTTTTTTGCTCTTTT
CTCCCCTTGAGACCCTAATATCTTGACTTCATTGCCAAAAAACAACCCATTGAGAACTTTCTTCCTACTGATCCC
ATCTCTTTTCCCTTCTTTCCTCCTGGTTCCGGTCAGTTCAGAGGATTTAACAATCACAAGTGTCCTGCAAAAATG
CCTGAACATTATTCTTAGGCCCTCGTGGATTTTTTTTTTTCAGAAAACTTAAACAAAAAAAGACTTACTAAGAAA
TATGTACAGCTACCCCTGTTTTCAGGCACTATGTTTGAGAACATTTTAGCCATTGATGTTCACACGTGGCATCAG
CCCATGCAAGATAGGTTTCTGTATTTATATATTAAAATACAAAAAAAAACTTATAAAATGTTTAAAAAAATGTTC
AAAGCTTGGGAGAAAAGCTTTCTTCATTAGTCAAGGTGTTTTGATATGGTATTAAAATGTCTAATAAAAGATGGC
ACTGCGTGATTTTATTTTAATGRAAGTGTTATACAATCAAGAAATGGGGGCAAGGGSCTGCCCCCCACTCCCTCA
CCTACCTCCTTAGCATTCCTTCAGGCTGCTACTCGGGGCTCCAGGTGTGTGAATTGGTCCTCAGATAGTCAGGCC
TGGGTGGAGGGAGTGGCAAGTCARGCGTGCCTCCTACAAGCTTCCTAACCTCTTAAGCATCATGGAACCAGTCAG
CCCTCTGTGGAGTCATTGTGCCGGACCTCTGAAAAGATCTGCAGGGGCCAARATGTTGCARCCACCSGAGGCTGC
ARGGWTYGTGGGTTCTTCCAGGTGTGGGCCCAGCCCCCCTCCTTYCAGCCTTTGCTCCCCATCCCACGTTCCACT
CKCCCTGCCTGGTGKTTGCGTCTCAGTGCTTGAMTCACGGGCATGCTTCATTGAGGCCCAGGAAGAGGCCCTGGT
TTGGGGCTGTGCCAGCTTCAGAGCCCTTGAACCAGAACCAACTGCTCAGGCTCACAAAAGTTGGCAAAATGCGGG
CTGGGCAGGCAGCTCGGGGCAGGGAGCAGCAGTGCAGGCCTGGCCTGTGXTCCCCGTGCCCAGCGGGYCSCGGAG
CAGCATTCCAGAGCCTCCTGCAGAGCCAGCGAAGGAAAGCTCTAGAGGGAGACGACTCCACCGCCTCTCTGCTCT
GACCCTTCTCAGGCCCGCCTGATGTGCTGGACCATCCCCCTGCTGCCACGGCCCCTGGCTCCGCAGTCACCCTCC
ATCAGATGCTTCCAGAAGCACCTACTCTGTGCAAGGGCATTCACAACAGGCCAGTGGGCAAACGTGAGCCAGGGC
CAGCGGAGAAACACTAAAGAAGACTTCGGTGGTTCAGAGCCTGGGTCTCAGCGCGGGACCCGTCTGGGGTTGAAG
ACCTTKGGGGCTKTTGTGAGTYGGTGGCAGGAACGTGGGCTYTAGAMTGTGCATTCAGGCTCTCCTACTTGGCAG
AATGATCTTGGGGAAACGACTTCATCTGAACTTCAGATATTTCACATGTGAAGCGGGGACAAAACCATGCAGCTC
AGAGGTCCCTGTGGGGGCTGGGGGAGCTGCCCTGCAGGTCTTGGCACATGCACAGCAGGCTCCCCATAGCTTTGT
CACCACAAAGGGCACTGTTCTATTCACAGCACCTCCTGCTTCTGCCTGGCAACTGTGTCTCCCTGTGCTATATTT
AATTCCACCAGCAAAGCTGKCGGAGGCAGGGCCCAGCCTGAAAGGAGATCTCCTTGCCTGACCCCTGGGACCTGG
GAAATGGAGGCTTCATGTGCCCGCCTTGSSKYTTAAAGCCTGCTGGCTTTGGCAGTGCCATGGGTGAGCCGAGCA
GCTGTGAGGTGGGTGGGGCAGGGCTGTAGCCACGCCGGGTGCTATTCCAGGCTCTAGGGGCTGGTGCTCATCCCC
ACCCCCAGCGACTTCCGTCCTACCTGGCATGCTGCAGCCCTCTGCCGGCTGTGGTGTCCTGAATTTGGACCCAGG
TTGCCTGCTCTTGTTGTGGGGGTGGGATTGGGGCTGTCTGTGTTTCCCAGGTGGAGCTCATGTTTGTGATCCTCT
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FIGURE 1506B

ATCTGGACAGCTCTCCAGAATCCTGTGTTGCCCCTGTTCTGCCTTTCTGGGATGGGAGAGAAGGTGAGGGAGCCG
GCGAGCCAGGTTCTACCCTCTCTGCTAAGGGCCTAGCACGCTTTGATGAGGTTCCTGGACGTGAGACCCTCACAA
AGACCAACCATTCCTCTAATAGCCATTTAACGGTACTGCAGTTCATGGGAAAATGTCCTCATTCTTAGGAGATAG
ATGCTGGATTATATAGGTGAATGCCTTCAAGAAATGTGTAATTTAATTCCAAATAGTTCCCCCCAAAATACACAA
AGCAAATAAGGCCAAAATGTTCATTGTTGAATCTGCAGTGGCTGGTATTTCAGTGAACAGTGTACTTGTTCTTTC
AACTTTTCTGTATGTTTGGAATTTTTCTTAATAAAAGATTGTGGGAAATGGTCATTTGCTGAGCGCCTCCTAGTT
GCCAGGCACTGGAGGGCGCATCAAAGAAGAGTCCTACCCAGGAGGGAGAGCGCAGCTGCTGCAGGATTCTCGCCT
GGAAGAGTGGGTGGCTGGCTGGCTGGCTGGAAGGGGAGGGGCGAGAGGGCTGTCTCGGTGATGAGCACACGCGTG
CTGGGGTGGTTTGGGGAGAGGGCTGAGATTTGTCACCAGTGAGCCCTTGGCACGGTCTCTGCTCCCCACCAGGGC
AGCACGGGACAGAAACGTCACGGAGGAGTAGCCTC

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FIGURE 1507

MGGKQSTAARSRGPFPGVSTDDSAVPPPGGAPHFGHYRTGGGAMGLRSRSVSSVAGMGMDPSTAGGVPFGLYTPA
SRGTGDSERAPGGGGSASDSTYAHGNGYQETGGGHHRDGMLYLGSRASLADALPLHIAPRWFSSHSGFKCPICSK
SVASDEMEMHFIMCLSKPRLSYNDDVLTKDAGECVICLEELLQGDTIARLPCLCIYHKSCIDSWFEVNRSCPEHP
AD

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FIGURE 1508

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ACGAGGATCCGGGGTTCCAACCCAGGGGGAAAAATGCGGCCTTTGACTGAAGAGGAGACCCGTGTCATGTTTGAGA
AGATAGCGAAATACATTGGGGAGAATCTTCAACTGCTGGTGGACCGGCCCGATGGCACCTACTGTTTCCGTCTGC
ACAACGACCGGGTGTACTATGTGAGTGAGAAGATTATGAAGCTGGCCGCCAATATTTCCGGGGACAAGCTGGTGT
CGCTGGGGACCTGCTTTGGAAAATTCACTAAAACCCACAAGTTTCGGTTGCACGTCACAGCTCTGGATTACCTTG
CACCTTATGCCAAGGGTTTTGGGGTGGCAGCCAAATCTACACAAGACTGCAGAAAAGTAGACCCCATGGCGATTG
TGGTATTTCATCAAGCAGACATTGGGGAATATGTGCGGCATGAAGAGACGTTGACTTAAAACGAAGCCATTCCAA
GGACAGACGGCTGTATGGAAAGGCCGAGCTTTGTTTCCTGTGTTTGTGTGGACTCCACCATCATGTTGAATTTTG
TCAACACTCTGGCCTCTTCAGGGACTTCTTATTTACTGTACTCTCTATCACTGACAAATGCAGGCTGGATTCTTA
TTATATACAGAGATGGCTCAAAAATGGGGTTTCAGATCTTTGTGACGAAATAGAATACTGTTTCATATTTGAATC
AGAGGGGCTTCTTGTTCTGAGAAATAGGTTCAAAATCATTGGAACCAGGAACAAGAATAGCTTATTGTTATCTGT
GATAACACTGTTTTCTAAACACAAGGATTTTCTTTTTTATTAATATGCAACATAGACATTGCCATAACAGAATAA
TAAACCACATGTGGGGTTTTAAAAATGAAATTTGGCTAATAGGAGCAATTCAGCTATTTTTCTATACAGTAATTG
GTGTGTGGTATAGAAGAAAAACGGGTTCAAACCCCACTTCTGCCACCTACCAGCTATATGGCCTTGAATGAGTCA
TTCAGCTTTAATAAGGTTCATTTTCTTCTGTTTAAAAAGACACAAAACTTGAAAATCAGCTTTGGCCATCTACCT
GAGAATTAGAAAGTCTGATTTTTGGAATTAGAAATCATGATTGTAGGCTGGGCACAGTGGCTCGCGCCTGTAATC
CCAGCACTTTGGGAGGCCAAGGCGGACGGATCACTTGAGGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAAAAAAAAAAAAAATTAGGTGTGGTGACACATGGCTGTGGTCCTAGTTACTTGGGAGGC
TGAGGCAGGAGAATGGCTTGAACTGGGGAAGCAGAGCTTGCAGTGAGCCAAGATGGTGCCATTGCACTCCAGCCT
GGGCGTGACAGAGTGAGACTCCATCTGATTGTAAAGCATCTAGTACAGTGTCCAGTGCCTTGGAAATGATAGGTA
TGGAATAAATGGTAATTATTTTTATATTATATATATTATGTATTCCTGTTATTAAGTGTAGAGTTTTATGAGTAT
AATTTGATTTTATTACCTTCTTTTTTACAAGCTGTTTTCTCAGTATTTTTCTTGGATGGGATGACGCTAGGCTGG
AAAGTTTTTTTCATCACTATGATTTTATAAAACAATTTTTTCTATGAACCTTTACTTACTTGACTGGATTGGACT
AAAAAGCACTGATCAGAGGCCACGACATAAAAATTCAGTCCCTTTGTCCTTCCCCGTGCCTCCCAAAGTTACTTTA
AGATCCTTAGAATATTTCTTTAAATATTTATAGACAAAAAATTTAAAGACTATCTGTATTGCAAAATTAAACTA
TTTCTTTAATGAATATATTGCTTATTTTAAGTTCCAAAGGTGAAGTCTTTAAGAATAAAACATTACCAACTCCTG
CTTTTATATGTAAAAAACAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1509

MRPLTEEETRVMFEKIAKYIGENLQLLVDRPDGTYCFRLHNDRVYYVSEKIMKLAANISGDKLVSLGTCFGKFTK
THKFRLHVTALDYLAPYAKGFGVAAKSTQDCRKVDPMAIVVFHQADIGEYVRHEETLT

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FIGURE 1510

AACAGATCTTC**ATG**AATGTCGCTATCTTTGAGGATGAAGTTTTTGCTGGAGTTACCACACACCAGGAACTCTTTC
CACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTTCTCTGATCTCAACCAGAGTCCACGGAACATGTACC
AATGCCAGATGGGTAAGCAAACTATGGGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAACAAACTGTATC
GTCTTCAGACTCCTCAGAGTCCCTTGGTGAGACCCTCCATGTATGATTATTATGACATGGATAACTATCCAATTG
GGACCAATGCCATCGTTGCTGTGATTTCTTACACTGGCTATGATATGGAAGATGCCATGATTGTGAATAAGGCCT
CTTGGGAACGAGGCTTTGCCCATGGAAGTGTCTACAAGTCTGAGTTCATAGACCTCTCTGAAAAAATTAAACAAG
GAGATAGTAGCCTGGTGTTTGGCATCAAACCTGGTGACCCACGCGTTCTGCAGAAGTTAGATGACGATGGATTGC
CGTTTATAGGAGCAAAACTGCAGTACGGAGATCCGTATTACAGCTACCTCAACCTCAACACCGGGGAAAGTTTTG
TGATGTACTATAAGAGTAAAGAAAATTGTGTTGTGGATAACATCAAAGTGTGCAGTAATGACACTGGGAGTGGAA
AATTCAAGTGTGTTTGCATCACTATGAGAGTGCCTCGGAACCCAACTATCGGAGATAAATTTGCCAGTCGCCATG
GGCAGAAGGGCATTTTAAGCAGATTGTGGCCGGCTGAGGACATGCCTTTTACTGAGAGTGGGATGGTCCCAGACA
TTCTGTTCAATCCCCATGGTTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAGTCTG
CAGCTTTGCATGGTCTCTGCCATGATGCTACACCCTTCATCTTCTCAGAGGAGAACTCGGCCTTAGAATACTTTG
GTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACCGAGAGGTTATATAGTGGCATCAGTGGGCTAGAAC
TGGAAGCAGACATCTTCATAGGAGTGGTTTATTATCAGCGCTTACGCCATATGGTCTCAGACAAATTTCAAGTAA
GGACAACTGGAGCCCGAGACAGAGTCACCAACCAGCCTATTGGGGGAAGAAATGTCCAGGGTGGAATCCGTTTTG
GGGAGATGGAACGGGATGCGCTTTTAGCTCATGGTACATCTTTTCTCCTTCATGACCGCCTCTTCAACTGCTCAG
ATCGGTCGGTAGCCCATGTGTGTGAAGTGTGGCAGTTTACTCTCTCCACTGTTGGAGAAGCCACCCCCTTCTTGG
TCTGCCATGCGCAACAGAAAATACAACTGT**ACT**CTGTG**TAG**TCGCAGTGACACTATCGATACTGTTTCTGTGCCT
TATGTTTTTCGGTATTTTGTAGCTGAACTGGCAGCTATGAACATCAAAGTGAAACTGGATGTTGTTAACTTGAT
GTTGACCTTTTGGATTAAGGGGACTATCAGATTAAAGCAAAATGTAATTTTAATTCAATGAAGATATCATTACCA
GGTTACTCTTGAGATTTTTCAACGGTGTTAGAACTCTCAACCAAGACCTGAAAACCAAGTATGCAAGGTTTCTGA
ATCTCTCTGGTAGATTAACTATTGACAATGATTTTCTGTTATCTTTGTTCAAAAAGTTCATGTCTTCTCAAAATA
TGAAATATTGATAAATGGAAGAGCATACGGTGACAAGTCTCCTTTCCAACCCCAGGTTCCCTACACCCTGCTCTC
AGCAGGCAGTGAGTGTCACACACCTGTTAATCCATCTTGAGCAGGACAGTACTATACAAATAGAATGCAAGCTGT
AATGTAATTTTATATTTTCTTATAGCCACGTTGAAGTAAAAACAAACAGGTACAGTGTTTTTTACCAGCTTTATA
GAAGTACAGTTGTTACATATTTAATGAATACAATTTGATGGGTCTGACTATATGCACACACCTTTGATACCATCA
CCACAATCAGGGTAATAAACATACCTGTCATCTCCACAAGTTTCCTCCTGCCCCTTTGTTTTTGCTTTTTGGTT
GCTGTTGAGTTTTTGTTTTGTCTTCTGTGGTAAGAACACTTAACTCAAGACCTACCCTCTTAACAAATCTTTAAG
TGCACGATATAGTATTGTTAATTCCAGGCACCATGTTGTACAACAGATCTTTAGACCTTACTTGTCTTGCATAAC
TGAAGCTTTATACCTGTTGAACAACTCTCCATTTCCCTGGCCCCTAGCAACCACCCTTCTACCCTGTTTCTATGA
GTTTGACTATTACAGATATCTCATATAGTGGGATCATGCAATATTTGTCCTGTGACTGGCTTATTTCACTTAGCA
TAGTGAAATAAGATTCATCCATTTTGGAAGCCAGGCATGGTGCTGTGCATCTATAGTCCCTGCTATTTGAGAGGC
TGAGGTGGGAGGATCATTTGAGTGCAGGAGTTCAAGGACAGCCTGGGTAATATAGGAAGACCCTGTCTTGAAGAC
CCTGACCTCAAGTGATCCACCCACCTCGGCCTCCGAAAGTGCTAGGATTACAGGTGTGAGCCACTGTGCCTGGCC
TCCGGTGAGTATTTTATATTTAGTCTACACTTCCATACTTGGCTTTTTTCTGCTTTTATGTTGATCTGCTTTCAT
AGCAGTGTGTAGAGTGCCACTTATGTTTTCTTTCTTGTGTACAGTATTTTATTGTATGGATTTACCATCCCCTGT
GTATTTAAGTTGTTCCATTCTTTGGCCATTATAACTTTTTTCTGCAAATATTCTGGTGACTTATCTTTGGCCATT
ATAAACTGTTGATAATAAAAAAAAAAAAAAAAA

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FIGURE 1511

MNVAIFEDEVFAGVTTHQELFPHSLLSVIANFIPFSDLNQSPRNMYQCQMGKQTMGFPLLTYQDRSDNKLYRLQT
PQSPLVRPSMYDYYDMDNYPIGTNAIVAVISYTGYDMEDAMIVNKASWERGFAHGSVYKSEFIDLSEKIKQGDSS
LVFGIKPGDPRVLQKLDDDGLPFIGAKLQYGDPYYSYLNLNTGESFVMYYKSKENCVVDNIKVCSNDTGSGKFKC
VCITMRVPRNPTIGDKFASRHGQKGILSRLWPAEDMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALH
GLCHDATPFIFSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVVYYQRLRHMVSDKFQVRTTG
ARDRVTNQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDRLFNCSDRSVAHVCEVWQFTLSTVGEATPFLVCHA
QQKIQLYSV

FIGURE 1512

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AGCTGCGGCGCTGGGCTGGCGGCGGCGAGTCCACGTGCTCCCCGCGGCCGGTTGAAACCGTTGGCGGGCGCTGGC
TGAGAGGCAATGTTTGCTGTCTTCCATTGGAGTGACTGAATTTCTACATGACGGCTTTTTGACAAGACTTAAAAC
CTGTCTTGGATAGAGAATATTTAGCCATTTACCTAAAAATGGTATTTTTTACATGCAATGCATGTGGTGAATCAG
TGAAGAAAATACAAGTGGAAAAGCATGTGTCTGTTTGCAGAAACTGTGAATGCCTTTCTTGCATTGACTGCGGTA
AAGATTTCTGGGGCGATGACTATAAAAACCACGTGAAATGCATAAGTGAAGATCAGAAGTATGGTGGCAAAGGCT
ATGAAGGTAAAACCCACAAAGGCGACATCAAACAGCAGGCGTGGATTCAGAAAATTAGTGAATTAATAAAGAGAC
CCAATGTCAGCCCCAAAGTGAGAGAACTTTTAGAGCAAATTAGTGCTTTTGACAACGTTCCCAGGAAAAAGGCAA
AATTTCAGAATTGGATGAAGAACAGTTTAAAAGTTCATAATGAATCCATTCTGGACCAGGTGTGGAATATCTTTT
CTGAAGCTTCCAACAGCGAACCAGTCAATAAGGAACAGGATCAACGGCCACTCCACCCAGTGGCAAATCCACATG
CAGAAATCTCCACCAAGGTTCCAGCCTCCAAAGTGAAAGACGCCGTGGAACAGCAAGGGGAGGTGAAGAAGAATA
AAAGAGAAAGAAAGGAAGAACGGCAGAAGAAAAGGAAAAGAGAAAAGAAAGAACTAAAGTTAGAAAACCACCAGG
AAAACTCAAGGAATCAGAAGCCTAAGAAGCGCAAAAAGGGACAGGAGGCTGACCTTGAGGCTGGTGGGGAGGAAG
TCCCTGAGGCCAATGGCTCTGCAGGGAAGAGGAGCAAGAAGAAGAAGCAGCGCAAGGACAGCGCCAGTGAGGAAG
AGGCACGCGTGGGCGCAGGGAAGAGGAAGCGGAGGCACTCGGAAGTTGAAACAGATTCTAAGAAGAAAAAGATGA
AGCTCCCAGAGCATCCTGAGGGCGGAGAACCAGAAGACGATGAGGCTCCTGCAAAAGGTAAATTCAACTGGAAGG
GAACTATTAAAGCAATTCTGAAACAGGCCCCAGACAATGAAATAACCATCAAAAAGCTAAGGAAAAAGGTTTTAG
CTCAGTACTACACAGTGACAGATGAGCATCACAGATCCGAAGAGGAACTCCTGGTCATCTTTAACAAGAAAATCA
GCAAGAACCCTACCTTTAAGTTATTAAAGGACAAAGTCAAGCTTGTGAAATGAACATTTGTGTATTTAAAAATTG
AATCCATTCTGCTGACTTCTTCCTTTCACTGCTGTTTATAAAATGTGTAATGAATTCTAACAACTCAAATTTTGC
TTTTTGAAGCTGTATTTTTAAGTTAAGAAAATATATTTTTGGTATAACTTTTATGAGAAAAATAAAAТАТАТТCT
GGTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAA
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1663/2682
FIGURE 1513

MVFFTCNACGESVKKIQVEKHVSVCRNCECLSCIDCGKDFWGDDYKNHVKCISEDQKYGGKGYEGKTHKGDIKQQ
AWIQKISELIKRPNVSPKVRELLEQISAFDNVPRKKAKFQNWMKNSLKVHNESILDQVWNIFSEASNSEPVNKEQ
DQRPLHPVANPHAEISTKVPASKVKDAVEQQGEVKKNKRERKEERQKKRKREKKELKLENHQENSRNQKPKKRKK
GQEADLEAGGEEVPEANGSAGKRSKKKKQRKDSASEEEARVGAGKRKRRHSEVETDSKKKKMKLPEHPEGGEPED
DEAPAKGKFNWKGTIKAILKQAPDNEITIKKLRKKVLAQYYTVTDEHHRSEEELLVIFNKKISKNPTFKLLKDKV
KLVK

FIGURE 1514

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TCTCGCTCAGGCTCGGTTTTACCCCGGAGTCTATTCGAAGGGGGCTGCTACGTCAGCGCGTCTCAGCGTAAGACG
GCGCTATTCCGCTGTAACAGCTTCCGGCGGGTCCTGGATGTTGATGTCCTGCATCTAACGCGGTGTAACCCCCGA
AGCCGAGCGAGCTCCGGAGGAATTTCAGTATCTGCTACGGTAACTTCATCAGCCCGCCAAGATGGCGATGCAAGC
GGCCAAGAGGGCGAACATTCGACTTCCACCTGAAGTAAATCGGATATTGTATATAAGAAATTTGCCATACAAAAT
CACAGCTGAAGAAATGTATGATATATTTGGGAAATATGGACCTATTCGTCAAATCAGAGTGGGGAACACACCTGA
AACTAGAGGAACAGCTTATGTGGTCTATGAGGACATCTTTGATGCCAAGAATGCATGTGATCACCTATCGGGATT
CAATGTTTGTAACAGATACCTTGTGGTTTTGTACTATAATGCCAACAGGGCATTTCAGAAGATGGACACAAAGAA
GAAGGAGGAACAGTTGAAGCTTCTCAAGGAGAAATATGGCATCAACACAGATCCACCAAAATAAATGTTTTCTAC
ATTTTCATTTGGACTAAATCCCACGAATGACAACTACCACCTTTTTTTCCTTTTTAATTAATACTAAATATTGTG
ATTTCTTATTTGAGGTTCAAAATGACCTGCTTGAAACTTTGATACATATTGGAATACATTATGTTAATAAACTTG
TAGCTTTTTGTGAAACAAAAAAAAAAAGTCGACGCGGCCGGCAATTTAGTAGTAGTAG
```

FIGURE 1515

MAMQAAKRANIRLPPEVNRILYIRNLPYKITAEEMYDIFGKYGPIRQIRVGNTPETRGTAYVVYEDIFDAKNACD
HLSGFNVCNRYLVVLYYNANRAFQKMDTKKKEEQLKLLKEKYGINTDPPK

1666/2682
FIGURE 1516A

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GGGTCGAGGTCGACGGTATCGATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCTTTCCCCTCCCCCTCCCTC
TCCAAGCCGGAGGGGTCCTGAGGTGACAGCGCCTGCAACTGAAATTTCAGCAGCGGGAGAAGATGGACAAGAGAA
AGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGTCATCTTCTGATTTATCGG
AGATAAGAAAGATGTTAAATGCAAAACCAGAGGATGTCCATGTTCAATCACCACTGTCCAAATTCAGAAGCTCAG
AACGCTGGACTCTCCCTTTGCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTCTAGACCATAAAAATAAAA
AACATATCCGAGGGTGTCCTGTTACTTCCAGGTCATCACCAGAAAGGATACCCAGAGTTATATTGACGAATGTCC
TGGGAACGGAGTTAGGAAGAAAATACATAAGGACCCCACCTGTAACTGAGGGAAGTTTGAGTGATACAGACAACT
TGCAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAATCTTATCAAAATCTAAACCCTCACAAGAGCT
GTTATTTATCTGAAAGGGGCTCACAACGAAGTAAGACAGTAGATGACAATTCTGCAAAGCAGACTGCGCACAATA
AAGAAAAACGAAGAAAGGATGATGGCATTTCTCTTTTAATATCTGATACTCAGCCTGAAGACCTTAACAGTGGAA
GTAGAGGTTGTGATCATCTCGAACAGGAAAGCAGAAACAAGGATGTTAAATATTCTGATTCAAAAGTGGAACTCA
CTCTGATTTCCAGGAAGACAAAGAGAAGGCTTAGAAATAATTTACCTGATTCTCAATATTGTACTTCTTTGGATA
AGTCAACAGAACAGACAAAAAAACAAGAAGATGACTCAACAATATCCACTGAGTTTGAAAGGCCAAGTGAAAACT
ATCATCAGGATCCAAAACTGCCTGAAGAAATTACAACTAAACCTACAAAAAGTGATTTTACTAAGCTATCCTCAC
TTAACAGTCAGGAGTTGACTTTGAGTAATGCCACCAAAAGTGCCTCTGCCGGTTCAACCACTGAAACCGTTGAGT
ACTCTAATTCCATTGATATTGTGGGGATTTCTTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAAA
AGCCTATTCTAAGAGGACATAATGAAGGGAACCAATCACTGATCTCAGCTGAACCAATTGTTGTTTCCAGTGATG
AAGAAGGACCTGTTGAACATAAAAGTTCAGAAATTCTTAAGTTACAATCTAAGCAAGACCGTGAGACAACTAATG
AAAATGAGAGTACTTCTGAATCAGCATTGTTAGAACTACCATTGATTACATGTGAATCTGTACAGATGTCATCTG
AATTATGCCCATATAATCCTGTCATGGAGAACATTTCCAGTATTATGCCTAGTAATGAGATGGATCTACAACTGG
ATTTTATATTTACTTCTGTTTATATTGGTAAAATAAAAGGAGCTTCTAAAGGTTGTGTTACAATCACAAAAAAAT
ATATTAAGATCCCATTTCAAGTGTCCCTGAATGAGATTTCATTGCTAGTGGATACCACACATTTAAAGCGGTTTG
GGTTATGGAAAAGTAAGGATGATAATCACAGTAAAAGGAGTCATGCTATTCTTTTCTTCTGGGTCTCTTCAGATT
ATCTTCAAGAGATTCAGACCCAATTAGAACACTCTGTATTAAGCCAGCAATCAAAATCTAGTGAATTCATTTTCC
TTGAACTACACAATCCTGTTTCACAGAGAGAAGAATTGAAGCTGAAAGATATTATGACGGAAATAAGTATAATCA
GTGGAGAATTAGAGCTTTCTTACCCGTTGTCTTGGGTTCAGGCATTTCCTTTGTTTCAGAACCTCTCTTCAAAAG
AAAGTTCTTTTATTCATTATTACTGTGTTTCAACTTGTTCTTTCCCTGCTGGTGTTGCTGTTGCTGAAGAAATGA
AGCTGAAATCAGTATCTCAGCCCTCAAACACAGATGCGGCCAAGCCTACTTACACCTTCCTGCAGAAGCAAAGTA
GCGGTTGCTACTCCCTTTCTATTACATCTAATCCAGATGAAGAATGGCGGGAAGTCAGGCACACTGGACTTGTTC
AGAAGTTGATTGTATATCCTCCACCACCTACTAAGGGGGGATTGGGAGTAACTAATGAAGATCTGGAGTGTTTAG
AAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTTAAGTATCTTATATTGGAGAAGGCATCAGATG
AACTTGTTGAACGAAGTCACATTTTTAGTAGCTTTTTCTATAAATGCTTGACAAGAAAGGAAAATAATTTAACAG
AAGATAATCCAAATCTTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATTT
TTAATAAAGATTACATCTTTGTACCTGTAAATGAGTCGTCTCACTGGTATCTCGCAGTCATTTGTTTTCCATGGT
TAGAAGAAGCTGTGTATGAAGATTTTCCACAAACTGTATCCCAGCAGTCCCAGGCTCAGCAGTCCCAAAGTGACA
ACAAAACAATAGATAATGATCTACGTACTACTTCGACACTGTCTTTGAGTGCAGAGGATTCCCAAAGTACCGAGT
CGAATATGTCAGTACCAAAGAAAATGTGTAAAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCTG
TACGAAACACAGTTCAGAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTTAAACTAAAAACTCATCGTCAAT
TCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCCTAAACAGGACAATAGCAGTGATTGTGGAGTATATT
TATTGCAGTATGTGGAAAGCTTCTTCAAGGATCCTATTGTTAACTTTGAACTTCCAATTCATTTGGAGAAGTGGT
TTCCTCGTCATGTAATAAAGACCAAACGGGAAGATATTCGAGAGCTCATCTTGAAACTTCATTTACAGCAACAGA
AGGGCAGCAGTAGCTAGTTAATCTGTACAAACATGACACAGATGTTCTCTAAGATTACTGGAAAGCCCCTTACCA
GCATTTGTGTTAGCCAGCTCACAGAGAAGAAAATAACTTGCAGTAGTTTTATAATAAGTCATTGGAACATTATTT
AAAATATGTAGGACACATTATTAGAATTGTTGGGATCTCATAGATGGAATGGGAATGGGGGTGATATAGATAAAC
TTACTAGATATAAATTAAAATTTTATAAATATTTCATATTTTTCTGAGTAAATATGATTGGATTATGCAACAGCA
TATGTAATATGGGAATGTTTTGTAGATAATAAAACTTACATGATCTGTACTTCCACGTGACTGGGTGCTGAGGGG
AGTTAAAGCCTCCCTGGTGCCAGCCCCAGTGCTTGTCAAATTTGCTGACAGGTCACATCATATTGTAATTCTATT
CTTTGCAGCTCAAGCATGCAGTATGAATACTGTGTATTTTTTAAAAAAATAATTTAGTATCAAGGCTTCAGAAAA
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1667/2682
FIGURE 1516B

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TGCCATTTACGGCATCCCTTCTGTATGTAACAAAAAGACATTCATAATGTTAGGAAGATGATAAAAATTCGCTCT
TTTAAAGTGCAGCTTATTATTCTCAATTGCTAAATACGATTACTCTGCTTTTTTTTTTTCATTTCTTTTGATGTC
ATATGTGAGTATCTTATAATTTAGTTCATTTGTTCAGGGTAAAATTTGAAACAAAAAATTTTACCTGTGCAAAAT
AGTTTTTTAAAAATTATACATGTAGCTCAACTTGAGGTACTGCTATATAAATATTCACTCACATTATCACGGAAT
TTATGTATAGTTTCTCTAATATAGAAGATAAAATTGGTGTCCTCATAACTTTAACAAAGAAAACCCTCAGTCCTA
TTTATTAATGGGTAGAATTAAATATATAATTTTATAGCTCAGTTTACCCAGTATTCATCTGCAAAGCCAGATTGC
TCTCATTGCTTTTATATTTTTAAATTGTAGCTTTTAGAGACCTATGATCCTCATGGAACTTAATTTTTTATTAAA
TATTCAGGTAACAGTTCTGAATTCATGTGATAATGGTGGCATTATATATGATTAAACACTTCAGAACTTTCTAAT
GTTATCAGGAGTATTTTGAGGGAGATATGATTATATTGTATTTTCTCAGATAAGAAAAATGTTTTTTAACAATAT
TATTTTAATCTGTTTTAAGCATCTCTTAGATTTACATTATAACTACATAAAGCAGTGAAGCAAAGGCAAATTAAG
ATAAAGCTAGAAAGTCTGAACATTTTATTTCAAAATCATACGAATCGGGGTCAGTTAAGCCTCAGTATTCTTAGC
TTTTGTTGATTTTGGCACTATCTTTATATTATTAAATATATTTGTTGTTTGGATATTTCATATAAAGATGGCTAT
AATTACATATTTCATTCCCAATTTGTGTGTGTTGGGGGGTACTTTTAAAGGTGACTATTGTTTTGTACATCTAAT
TTTGGGAAACCAAGTCTATAAGACATCTTGTGATTTCTTAATGTTTTTGTTTGTATGTTTTTCAAAGATATCACT
GTCCTTTATCATGTTTTGAAGATTGTTTAAAATTCATTTTCCTAAATTAATGTGCAAGTAATGTTTTGAGGATAT
CGGTGTTTTATATTAAACATATTTCCAATTCAAAAAAAAAAAAAAAAAAAAACTTATCGATACCGTCGACCTCGATG
ATGATGATGATGATGATGTCGAC
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FIGURE 1517

MDKRKLGRRPSSSEIITEGKRKKSSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPLQWERSLRNKVISLD
HKNKKHIRGCPVTSRSSPERIPRVILTNVLGTELGRKYIRTPPVTEGSLSDTDNLQSEQLSSSSDGSLESYQNLN
PHKSCYLSERGSQRSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQESRNKDVKYSDS
KVELTLISRKTKRRLRNNLPDSQYCTSLDKSTEQTKKQEDDSTISTEFERPSENYHQDPKLPEEITTKPTKSDFT
KLSSLNSQELTLSNATKSASAGSTTETVEYSNSIDIVGISSLVEKDENELNTIEKPILRGHNEGNQSLISAEPIV
VSSDEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLELPLITCESVQMSSELCPYNPVMENISSIMPSNEM
DLQLDFIFTSVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISLLVDTTHLKRFGLWKSKDDNHSKRSHAILFFW
VSSDYLQEIQTQLEHSVLSQQSKSSEFIFLELHNPVSQREELKLKDIMTEISIISGELELSYPLSWVQAFPLFQN
LSSKESSFIHYYCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAAKPTYTFLQKQSSGCYSLSITSNPDEEWREVRH
TGLVQKLIVYPPPPTKGGLGVTNEDLECLEEGEFLNDVIIDFYLKYLILEKASDELVERSHIFSSFFYKCLTRKE
NNLTEDNPNLSMAQRRHKRVRTWTRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQQSQAQQ
SQSDNKTIDNDLRTTSTLSLSAEDSQSTESNMSVPKKMCKRPCILILDSLKAASVRNTVQNLREYLEVEWEVKLK
THRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPIVNFELPIHLEKWFPRHVIKTKREDIRELILKLH
LQQQKGSSS

FIGURE 1518

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GCTCTGCACCCCTGCTGCTTCTGCTTTGAAGGCGGAGGCTCCATGTTGTCCCCTCAGCGAGTGGCAGCAGCTGCC
TCAAGAGGAGCAGATGATGCCATGGAGAGCAGCAAGCCTGGTCCAGTGCAGGTTGTTTTGGTTCAGAAAGATCAA
CATTCCTTTGAGCTAGATGAGAAAGCCTTGGCCAGCATCCTCTTGCAGGACCACATCCGAGATCTTGATGTGGTG
GTGGTTTCAGTGGCTGGTGCCTTCCGAAAGGGCAAGTCCTTCATTCTGGATTTTATGCTACGATACTTATATTCT
CAGAAGGAAAGTGGCCATTCAAATTGGTTGGGTGACCCAGAAGAACCGTTAACAGGATTTTCCTGGAGAGGGGGA
TCTGATCCAGAAACCACTGGGATTCAAATCTGGAGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGGAAGAAGGTT
GCAGTTGTTCTGATGGATACCCAGGGGGCATTTGACAGCCAGTCAACTGTGAAAGACTGTGCTGCCATCTTTGCT
CTAAGCACTATGACTAGTTCTGTTCAGATTTATAATTTATCTCAGAACATTCAAGAAGATGATCTTCAACAGCTG
CAGCTCTTCACAGAATACGGTCGTCTGGCAATGGATGAAATTTTCCGAAAGCCTTTCCAGACACTGATGTTTTTG
GTTAGAGATAGGAGTTTCCCTTATGAATATAGCTATGGACTCCAAGGAGGAATGGCATTTTTGGATAAGCGTTTA
CAGGTGAAGGAACATCAACATGAAGAAATTCAGAATGTTCGAAATCACATTCACTCATGTTTCTCCGATGTCACC
TGCTTTCTCTTACCACATCCAGGACTCCAGGTGGCCACAAGCCCTGACTTTGATGGGAAATTAAAAGATATTGCT
GGTGAATTCAAAGAGCAGTTACAGGCACTGATACCGTATGTATTAAACCCATCTAAGTTAATGGAAAAGGAGATC
AATGGCTCAAAGGTCACCTGTCGGGGACTACTGGAGTATTTTAAGGCATATATTAAAATTTATCAAGGAGAAGAT
CTGCCTCACCCCAAGTCCATGCTTCAGGCCACTGCTGAAGCCTACAACTTAGCAGCTGCAGCCTCTGCCAAGGAC
ATTTATTATAACAACATGGAAGAGGTTTGTGGGGGAGAGAAACCTTATTTGTCTCCAGACATTCTAGAGGAGAAG
CACTGCGAATTCAAACAACTTGCTCTGGACCATTTTAAGAAGACCAAGAAGATGGGTGGGAAGGATTTCAGCTTT
CGTTACCAGCAGGAGCTGGAGGAGGAAATCAAGGAATTATATGAGAACTTCTGCAAGCACAATGGTAGCAAGAAC
GTCTTCAGCACCTTCCGAACCCCTGCAGTGCTGTTCACGGGCATTGTAGCTTTGTACATAGCCTCAGGCCTCACT
GGCTTCATAGGTCTTGAGGTTGTAGCCCAGTTGTTCAACTGTATGGTTGGACTACTGTTAATAGCACTCCTCACC
TGGGGCTACATCAGGTATTCTGGTCAATATCGTGAGCTGGGCGGAGCTATTGATTTTGGTGCCGCATATGTGTTG
GAGCAGGCTTCTTCTCATATCGGTAATTCCACTCAGGCCACTGTGAGGGATGCAGTTGTTGGAAGACCATCCATG
GATAAAAAAGCTCAA**TAG**CATCTTAACGTGAAGATCAAACAAGAACACAACAAGCCCCTACTGATTTCTGGGTTT
CTGCCACGGCCACAGGTTCATATCCAGAGGAATGGCAGATCTGAGACGATCCAGGAAGAGCTAAAACATGGCCCT
GTAATAAATGAGCAGACCTCTATAAAGAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1519

ALHPCCFCFEGGGSMLSPQRVAAAASRGADDAMESSKPGPVQVVLVQKDQHSFELDEKALASILLQDHIRDLDVV
VVSVAGAFRKGKSFILDFMLRYLYSQKESGHSNWLGDPEEPLTGFSWRGGSDPETTGIQIWSEVFTVEKPGGKKV
AVVLMDTQGAFDSQSTVKDCAAIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFRKPFQTLMFL
VRDRSFPYEYSYGLQGGMAFLDKRLQVKEHQHEEIQNVRNHIHSCFSDVTCFLLPHPGLQVATSPDFDGKLKDIA
GEFKEQLQALIPYVLNPSKLMEKEINGSKVTCRGLLEYFKAYIKIYQGEDLPHPKSMLQATAEAYNLAAAASAKD
IYYNNMEEVCGGEKPYLSPDILEEKHCEFKQLALDHFKKTKKMGGKDFSFRYQQELEEEIKELYENFCKHNGSKN
VFSTFRTPAVLFTGIVALYIASGLTGFIGLEVVAQLFNCMVGLLLIALLTWGYIRYSGQYRELGGAIDFGAAYVL
EQASSHIGNSTQATVRDAVVGRPSMDKKAQ

FIGURE 1520

GGCACGAGGGCCATGACGAGCCGGTCCGGAAGAAGAGGTAGGGCGCCGCCGTGACAGATTAGTCCTAAAGGGAAC
GGGGTTGTTAGTTCAATTGGCTACCGGAAAAAACCAGGCTGGGCTGGGCGCCGCCATGACAACCGATACCGGAAA
AGGCGGGTCGTTCCCCCCGGACAGCCCTACGCCGGCAAAGGTCTCGAG**ATG**CAGGCGGCCCTAGAGGTCACCGCT
CGCTACTGTGGCCGGGAGCTGGAGCAGTATGGCCAGTGTGTGGCGGCCAAGCCGGAATCCTGGCAGCGGGACTGT
CACTACCTTAAGATGAGCATTGCCCAGTGCACATCCTCCCACCCAATCATCCGCCAGATCCGCCAGGCCTGTGCT
CAGCCTTTTGAGGCCTTCGAGGAGTGTCTTCGACAGAACGAGGCAGCTGTGGGCAACTGTGCAGAGCATATGCGC
CGCTTCCTGCAGTGCGCTGAGCAGGTGCAGCCGCCACGCTCACCTGCAACTGTGGAGGCACAGCCACTTCCTGCC
TCC**TGA**GGACTCCTCTGACGGCAGGAAAACTGGACATGAATGACTGCCCCCCCGCCCCTCCCCTGCAGAGTGGCC
AGATGGAGTCCTGAGCCCTGGACATGGGCCCGGCTTTCCTGGATATCAGGACTTCCAATAAATAAAGACTCTGTA
TACTGGGAAAAAAAAAAAAAAAAAAAAAAAAAAA

1672/2682
FIGURE 1521

MQAALEVTARYCGRELEQYGQCVAAKPESWQRDCHYLKMSIAQCTSSHPIIRQIRQACAQPFEAFEECLRQNEAA
VGNCAEHMRRFLQCAEQVQPPRSPATVEAQPLPAS

1673/2682
FIGURE 1522

ATTGCTGGCCTAGGTGAAACTGACGGTCTCCATTAGAAAC**ATG**GCTGCGACCAGTCTAGTGGGTATTTGTAGAAG
AGCCTCAGCGTTCCTGAAGGCAGCTTGTTCCCTAGTAAATCCCAAGGACGCTGCTCACTCGGGTTGCAGGTCTTC
TCTTAGTTTGTTGCCTAAGAGTACACCAAATGTGACATCCTTTCACCAATATAGATTACTTCATACCACATTGTC
AAGGAAAGGACTAGAAGAATTTTTTGATGACCCAAAAAACTGGGGCAAGAAAAAGTAAAATCTGGAGCAGCATG
GACCTGTCAGCAACTAAGGAACAAAAGTAATGAAGATTTACACAAACTTTGGTATGTCTTACTGAAAGAAAGAAA
CATGCTTCTAACCCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGATAAGGT
AGTAGATTCCATGGATGCATTAGATAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCA
AGAAAGAGCTAGACCTGGTGCTTGGAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAGTTCAAGCAGTGGGT
TATACCTTGGCACCTAAATAAAAGATACAATAGGAAACGATTCTTTGCCTTGCCTTATGTGGACCATTTTCTCAG
ACTGGAACGTGAGAAACGAGCCCGCATCAAAGCACGGAAGGAAAATTTAGAGAGAAAGAAAGCAAAAATTCTTTT
AAAAAAGTTTCCACATCTTGCTGAAGCCCAAAAGTCAAGTCTTGTC**TAA**GATGTCTGAACTATTAAATTTACCAT
TTTGTTTTTCTTGAATAGTCTGTGTACAGGAGTAAATATGTTAAGTGGTTTATAAAGAAATTCTGTTTTTAGTCA
AGTGACTTTACTAATCAGTTGTTCTAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGC
TTCTAAAAATCAGGTATAAAGTTCAGATGAGATTCCCACTTTATAAATTCTGACATTTAAGCAGGCTTTAAATGT
CACCTGCTACCTTAGAGTGTGAAGGTGATGGTAACTGCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAAT
AATAGTTTTACCTCTGTTGTTAATAGGCTATGAAGAGGATGTGGGTATTGCTGTTAATAAACGGAGGACTTTGAT
TCAAAATAATGAGAAATACATTTAGTCCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAATATATTTCTGGA
ATGGCTAATTTTTATTTAATTCTGTAAGCCTAAGGTAAAAAGCATAGGCAGTAACTTTTACTAGTCAATAAAAAG
CAGTTCTACCAATCCACTGGTAATTAATACACTAAACAGAGTTGGAAAGCATTTTACTGAAAGCAAAATATTTAG
AGAAAATAGACATTTATACAAAATTATAAAATGCTTGTAATAAGAATAAGTGCATTTCAAGGAAAGCACAAACTT
AATTTATAGAGCCAGTTAAAGCTTTAAAAAATTTAAGTGGAAATTGAAATATGCAAAAATGTATAAACATTCTAC
AAAAGATGGTCATTCTTTTCCTGAGTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGG
GAACTCTTTCTCAAGGGCATTTTCTTTCTACACACTGCTTCCCTCCTTCTTCATATTCTTGCTTGGAAATCCACA
TCCCAACACTTGTGGTGACAACATGACTGACTCCTAACATTGTGTTTCCTGATAACCCCTTCACATTGGAAGGGT
CAAATAATCCTTCTGGAATCTTTAGCCGCTCTGCACCAAAATCACAATTGTAGCCATTGGGGAATTCATAATGAA
CAGTTGGCATCTGTGCAGCCACTTGTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCT
GGATAACACAATTACACATATAATTGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTTCCAGTTTG
CTGGAGATCCTTCACGAACAGCTTCTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCATTTCTTGGA
AGAGTTCTCTGCACTGCATAGTAATAAAGTCTCCAGCAAGAGGGGATTTCACAATGCCTTGTTGAAGGACATAGC
CATCGTGGACTGGAATTGCAGTGGTATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAA
ATGCTGTCAAAACTGCAGTTTTGCAAAGGAAGAAGGCAGGGATGTTGTAGTGTTCAAACATTAACTCTGTCAGTT
TCTCTCTCTTTGCTCTAGTATTCCACGGTGCCTCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTTGACAT
GCATTTTGTAGGTATGATCCAAAATAGCTTGGAAACTATCCCAGTCTTCAACCATCCCATTTTTTAGAGGTGAAA
TGGCCTCCATATTCTCCCTCGGAACACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCCTTGTTTGCCTT
TATCGCCATCTATTTCCATTAATGTGCTTCCGTCATCTCTTTCTACCACCATACCAATAGCTGTAGGAAAATCCA
CCTTGGGGCAGTCCTCACCAGCATAACCAGCTCTCACAGTATAGGATCCAATGTCAAAAACAAGGGCTCCAACTT
CATCTCCCCCGTACCACGCCGCCGCTCATGGCTGCTGCCGGCGCGACTCCTACCCTAAGGGCTAACTGGCGAAGT
GACTGCAGTGGCCGCGACTGCGAGTCTCGAGGAGCGATAGCCCCTGACTCCCTTAACTTCCACCGCCACCCACCT
CAGGCAACAAAGCGG

1674/2682
FIGURE 1523

MAATSLVGICRRASAFLKAACSLVNPKDAAHSGCRSSLSLLPKSTPNVTSFHQYRLLHTTLSRKGLEEFFDDPKN
WGQEKVKSGAAWTCQQLRNKSNEDLHKLWYVLLKERNMLLTLEQEAKRQRLPMPSPERLDKVVDSMDALDKVVQE
REDALRLLQTGQERARPGAWRRDIFGRIIWHKFKQWVIPWHLNKRYNRKRFFALPYVDHFLRLEREKRARIKARK
ENLERKKAKILLKKFPHLAEAQKSSLV

1675/2682
FIGURE 1524

CTTGGGGTGGGGACCGGGTGAGGGGCCTGACGGCAGAGTCGGTCCAGAACTGCCCGGACAGCGACGCACAGCGAG
GAGCCAAAATGGAAGAGGGTGCAAGTCCCCTCCTGGGGCCCCAGACGCCCCCTCCTTTCTTGCTGCCTGGAGCAG
GGGCAGTGCTGTTAGTGGCTACTCCTGGTGTGAACAGCCCATCCTGGCCACCTTCCACAGGAAACCTGACCTGAA
GGACAGAAGAGGAAGGAAGCAGGCTTTGCCACAAATGTCAGTGCAGAACTCTGGCTGGCCCCACCAAGAAGACAG
CCCCAAGCCCCAGGATCCAGGTCCACCAGCCAACTCAGACAGTGACTCAGGCCACCTGCCGGGGGAGGACCCTGA
GGATACCCATGCTCAGGAATTCCTGTCTCTGCACCTGCTTAGAACATGGGGTTTTGACTTTAAACTCATTCACAT
GAGTATTCATTATCTCTCCTAGGGGGTCTGTATTGTCAAACCAGACTCTAGGGGCTTTGGCCCCAAGGCGTGAAG
GGGGTTAAGAAGGGAAAGCATAAGAAGGGAAGCTGTTTTGGGGTGTGGGGCCTCCCCAGCCTCCCTCAAGGAAGA
CCACACATGCAGGCATCAGTCAGCTATCCTTGCACTCAGTGAGGATCTGCAAGGAGGACCCTCCCAAATGGAGGG
CATGCTTAGAAGCTGCTCTAGATTGGAGAAGAGGTGGCAATGATGAGGGGGAAAGAAGGAGAAAGGAAAGAAAAA
CCTAGTTTCACTCCTCCCCTTCTTCC**ATG**TCTCCTCAGGGTCCTGCAGTTCTGAGCTTGGGTTCCCTTTGCCTGG
ACACCAACCAAGCCCCCAACTGGACTGGACTTCAGACCCTCCTGCAGCAACTCCCTCCGCAGGACATTGATGAGC
GCTACTGCCTGGCCCTTGGGGAGGAGGAGCGGGCCGAGCTGCAGCTCTTCTGTGCCAGGCGGAAGCAGGAAGCCC
TGGGACAGGGGGTAGCCCGCCTGGTACTTCCCAAGCTTGAAGGACACACCTGTGAGAAGTGTAGGGAGTTGCTGA
AGCCAGGGGAGTACGGAGTGTTTGCAGCCCGGGCAGGGGAACAGCGCTGCTGGCACCAGCCTTGCTTTGCCTGCC
AGGCCTGTGGCCAGGCCCTGATAAACCTCATCTACTTCTACCATGATGGACAACTCTACTGCGGCCGTCATCATG
CAGAGTTGCTGCGCCCGCGCTGCCCGGCTTGTGACCAGCTGATCTTCTCCTGGCGCTGCACCGAGGCGGAGGGAC
AGCGCTGGCATGAGAACCACTTCTGTTGCCAGGACTGCGCCGGGCCTCTGGGCGGGGGACGTTATGCCCTGCCTG
GGGGAAGCCCCTGCTGCCCCAGCTGCTTCGAGAACCGCTACTCGGATGCAGGCTCGAGCTGGGCCGGGGCACTGG
AAGGGCAGGCATTCCTTGGAGCGCCCCCACCGCACCCCCCAGACCCAAGCCTCGGGGCCCGCAGCTCTCACCGCG
CATCCCTGGCCGGAGCGTTCCAAGGGCCGCCCGAACCCACCCCGCGCCGCGGTCGGGGTTGCGGCGCCAGACTCC
CTCCCAGGCGCGGGAGGCGGACGCCCTCTGGTGGAGGCGGGGGACCCTGGCGAGGACTCTCGGCGGCGGCGGCGG
CGCGCACGGCCCAGGGGCTGGGCGGGGCGGGAGGCTGGGCCTCACCCCCACTAGCTGCGGTG**TAG**GTCCAGCTCC
GCGGCTCTGAGACCAGCGTTTCCGACCCGGCCCGGAACAGGGGAGACTGGACTCGACCGAACTGAAGGAAGGGAC
CAAACCTCGGTGAACTCTGCAACCCTCTCCCGAACACTCCTTGCTGCTGCCGGCGGTTCCAGCCTGCAAACTCAG
AGGGGGCTGCCTGGATCCAGTCCCCAGCAGGAGAACCGACCTGGGGACAAAGCGGAGGCACCCAAAGGGCAGGAG
CAATGCCGCCTGGAGACTATTCGTGATCCCAAGGACACCCCTTTCTCCACCTGCTCCTCCTCCTCTGACTCGGAA
CCTGAAGGATTTTTCTTAGGCGAGCGCCTTCCCCAGTCCTGGAAGACCCCCGGAAGCCTCCAAGCAGAGGACAGC
AACGCCTCTAAGACGCACTGCACCATGTGCTAGTGGCGCAGCTCAGAGAGGGGATGTGAGTGGGAGGAAAGGGGT
CTGTAAAGCGGGAGAACAAGGCTAGCCTCCCCCTAACAATCCTAGACTGAGACGCAGTCAGGCGCACGCCCGCAA
GAGGCGGCGAGGTGACAAGTTTGGAGTGCGCCCCCTTCAGTACTGCGCGTTCTAAGACTTTTGGCGGAGACTTTC
TTGGCAAAACCCATTCCCCAAAGCTACGCTTCCCCTGCTGAGATAGCCCCTACCCCCCACCTCCACAGGCTGGGAC
AGCCCCGTCCCCACCATCCTCCTCCCAAGCCAATTAAATGATCACAGCACGCGTGACAGTTACCGGCTGGAGAGC
CGGAGGTGGGACCGGGAGCAGGGGACCGTAGAACCGGGCCGCGCTCCTCCCCTCCTAGAGTTCGTGGAGGCGCAG
CAGAGGGCCGTCCCTCTTCCGGATGTCGGACTAAGCGAACAGCGCCCCCACTGCCGGCCGGTAGCAGCCGGAAGT
GCCAGACCGGAGGTGCGTCATTCACCGGCGACGCCGATACGGTTCCTCCAGCGAGGCCCATGCGAAGCTTTCCAC
TATGGCTTCCAGCACTGTCCCGGTGAGCGCTGCTGGCTCGGCTAATGAAACTCCCGAAATACCGGACAACGTGGG
AGATTGGCTTCGGGGCGTCTACCGCTTTGCCACTGATAGGAATGACTTCCGGAGGAACTTGATACTAAATTTGGG
ACTCTTTGCTGCGGGAGTTTGGCTGGCCAGGAACTTGAGTGACATTGACCTCATGGCACCTCAGCCAGGGGTGTA
GCCAAGTAGTTCTAATGCCACCTGTCGTCTTATCATCTGATTGCAGACAAATGGAATCCTGTGCTGAACCCGAAT
CTTCCAAAAAACAGCCTACAATCTGTGACCACCACAAGATGTGCCCTGATGGCAGCTGAAGTTTGATTCAGATGG
GCACTTTTCTTCCCCTTCCCTGCCTAGTTTCCTTTTGTTCCTTGAGTCCACGCAGAATTCCATTCTCTGGTCAGC
AGACAGGCTTAAGCTAAAGTATTGCCTCTATTCTGTAAAGTTCTGTACATAGTTCCCAAGCTTCTGCAGGGGGTG
ATTTTTGCTCTTGTCCTGAGAAATAACAGTGCTGTTTTAAAAAACATTTGAAATAAATACCGCACACAAAGGAAA
AAAAAAAAAAAAAAAA

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FIGURE 1525

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MSPQGPAVLSLGSLCLDTNQAPNWTGLQTLLQQLPPQDIDERYCLALGEEERAELQLFCARRKQEALGQGVARLV
LPKLEGHTCEKCRELLKPGEYGVFAARAGEQRCWHQPCFACQACGQALINLIYFYHDGQLYCGRHHAELLRPRCP
ACDQLIFSWRCTEAEGQRWHENHFCCQDCAGPLGGGRYALPGGSPCCPSCFENRYSDAGSSWAGALEGQAFLGAP
PPHPPDPSLGARSSHRASLAGAFQGPPEPTPRRGRGCGARLPPRRGRRTPSGGGGGPWRGLSAAAAARTAQGLGG
AGGWASPPLAAV
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FIGURE 1526

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GGGCCGAGCCATGCAGGCGTCGCGCGTGGACTACATCGCTCCCTGGTGGGTCGTGTGGCTGCACAGCGTCCCGCA
CGTCGGCCTGCGCCTGCAGCCCGTGAACAGCACCTTCAGCCCCGGCGACGAGAGTTACCAGGAGTCGCTGCTGTT
CCTGGGGCTGGTGGCCGCCGTCTGCCTGGGCCTGAACCTCATCTTCCTTGTGGCTTACCTGGTCTGTGCATGCCA
CTGCCGGCGGGACGATGCGGTGCAGACCAAGCAGCACCACTCCTGCTGCATCACCTGGACGGCCGTGGTGGCCGG
GCTCATCTGCTGTGCTGCGGTGGGCGTTGGTTTCTATGGAAACAGCGAGACCAACGATGGGGCGTACCAGCTGAT
GTACTCCTTGGACGATGCCAACCACACCTTCTCTGGGATCGATGCTCTGGTTTCCGGAACTACCCAGAAGATGAA
GGTGGACCTAGAGCAGCACCTGGCCCGGCTCAGTGAGATCTTTGCTGCCCGGGGCGATTACCTGCAGACCCTGAA
GTTCATACAGCAGATGGCGGGCAGCATTGTTGTTCAGCTCTCAGGACTGCCCGTGTGGAGGGAGGTCACCATGGA
GCTGACCAAGCTATCCGACCAGACTGGCTACGTGGAGTACTACAGGTGGCTCTCCTACCTCCTGCTCTTTATCCT
GGACCTGGTCATCTGCCTCATTGCCTGCCTGGGACTGGCCAAGCGCTCCAAGTGTCTCCTGGCCTCGATGCTGTG
CTGTGGGGCACTGAGCCTGCTCCTCAGTTGGGCATCCCTGGCCGCTGATGGCTCTGCGGCAGTGGCCACCAGTGA
CTTCTGTGTGGCTCCTGACACCTTCATCCTGAACGTCACGGAGGGCCAGATCAGCACAGAGGTGACTCGCTACTA
CCTGTATTGCAGCCAGAGTGGAAGCAGCCCCTTCCAGCAGACCCTGACCACCTTCCAGCGCGCACTTACCACCAT
GCAGATCCAGGTCGCGGGGCTGCTGCAGTTTGCCGTGCCCCTCTTCTCCACTGCAGAGGAAGACCTGCTTGCAAT
CCAGCTCCTGCTGAACTCCTCAGAGTCCAGCCTTCACCAGCTGACCGCCATGGTGGACTGCCGAGGGCTGCACAA
GGATTATCTGGACGCTCTTGCTGGCATCTGCTACGACGGCCTCCAGGGCTTGCTGTACCTTGGCCTCTTCTCCTT
CCTGGCCGCCCTCGCCTTCTCCACCATGATCTGTGCAGGGCCAAGGGCCTGGAAGCACTTCACCACCAGAAACAG
AGACTACGATGACATTGATGATGATGACCCCTTTAACCCCCAAGCCTGGCGCATGGCGGCTCACAGTCCCCCGAG
GGGACAGCTTCACAGCTTCTGCAGCTACAGCAGTGGCCTGGGAAGTCAGACCAGCCTGCAGCCCCCGGCCCAGAC
CATCTCCAACGCCCCTGTCTCCGAGTACATGAACCAAGCCATGCTCTTTGGTAGGAACCCACGCTACGAGAACGT
GCCACTAATCGGGAGAGCCTCCCCTCCGCCTACGTACTCTCCCAGCATGAGAGCCACCTACCTGTCTGTGGCGGA
TGAGCACCTGAGGCACTACGGGAATCAGTTTCCAGCCTAACAGACTTTCGGGGGTTCCTGCCTCCTTTTTCCGTT
CTGGTTTTTAATTAGTGCAAATACAAGCTGCGTTTCTTTAATAGAAACCAAAGGCATCTGGAGCCCGAGAGGCCT
CCTGCTGGGCAGAGGAGCAGCTGGGATTCCCGACCAAAGCCCCAGGGGGTGCAGAAGACTCACCACGCGGGCCAG
CCTCTCTCTTTTGCCCTGCTCTCCACACCAGAAATGCCCCCAGGTGCTTGGCTGCCTCAGAGGTACCATCCCTGA
GCTGGCTGCCTGGCCCTGCTCACCCCTACGCCTCGCCCTTGCCAGGAGGGGAGTGGCAGTGAGGAGGGGGCCAGG
TCAGGCACCACCATCAAGAGAGCTGTGTGTTCTCTCTGGTCCCACAACGATGACTCTGCCTCTTGTCAGCCCAGC
CAAGAGCCCAGACGACCCCTCTGTCCTCGTTCCCTGTCCTCGTTCCCTGCAGGTAACATGAGAAGGGCTGATCAG
GAGATGCTCTTTAAGAAGTTCGCACCCCTGCTGACACCAGAACAAGCCAAATCAGAGTTCCAGGGCCAGACAGGC
TCTTCCTGGGCCACAGAGGGGAGGCATCAGGAAAGCTCTGCAGTGGGGGGCTGGTGGCTCCGGGGCTGGGGGATC
ACAGGCTGGTGAACCCCGGTGGGAACAGAGGTGAAAGCCTGCCACATTCCGCCTGTCTCCCTAACCCTCCATTGC
CTCGCCTCTATTCCAGAATCAATGCTGCAGAATGTGTTAGCTGCAGATAGGCATGGTCTCAGGTATGAACAGACA
CTTTGAAACGACTTTAGGTCTTTCTTTTCTCCAGTGTTTTAAACATGTTGATTATCCAAAGAATTGAAACTCCTA
GCACATCCAGTTTTTACAACAGATTTGCAGCTCATTCCTTACCCTGGTTAGGTCACTACTTTTGCAGATTTTGCT
GGCACTGATCTGGAGATCTGCAGATCTGGAGGAGACGGGAAGGAGTCGATTCTTAAATAAGGATCAGTGAGGCAT
CCTGTCCCAAGCTACTGTTTGGTGGGGATCTGGGTTCATCTCACCCACAGAGGGAGGATCTTTAAGAGGAGAAAA
AAGCCAAGAGGGAAAGCCAGAGTTCCCTGTTCTAGGGGACTAGCCAAATGCCTACATCAGCTGTCCCCTCCCTGT
TGTCTCCAAGTAAGTTTGCCAGAAAAGGTTTTAGCAAAGTGCTACAACTGTGTCTTTATAGGAGGATAGGCCTCT
GCCCTGCCCCACCCCCACCACCTGTCCCCACCCAGTGTCCCAGGCCACAGGAGCTTATTGGCCAGGAGGGAATAA
TGTCCCCCAATACTGCCTGTTGAGGGACCAGAGTTGGGGTCTTTGGTGCTTCCAACCTCCTGCCAACCTGGAGTT
CACAACACCAGAGCCCCACGGCCTCGCACACTGAAGCAGGGGCGTGCGGTGACTCGGTGCTTCTGTTTTGGAAGA
ACCACCTGTCATCAAAACATGGACAGCAGGGTGTTCTCAGCTCCCAGCGAAGCCTCCACAACAGAATGGGGCCAC
AGGGCAGCCGGGACTCCCTGTCTCACCTACATTAACCCATGCATACTGTATGCCATAAACTCACTTTGGTATATC
CGCGTCACATGCAGAGAGGAACTCTGCGACGTCAAAGTGTTGCTTCTTAAAGTTTCATTATTGGCAACTAGAGGG
TTGTTTTTAATGCATGGAAACTAAACAGATTCCTCGGGGAGTTCCTGAAGGAACCAGGTGGGCAAACCTTTGCTT
ATATACATGCGGCCTCACCTGGAAGAGAAATAAACCACTTGTACT
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FIGURE 1527

MQASRVDYIAPWWVVWLHSVPHVGLRLQPVNSTFSPGDESYQESLLFLGLVAAVCLGLNLIFLVAYLVCACHCRR
DDAVQTKQHHSCCITWTAVVAGLICCAAVGVGFYGNSETNDGAYQLMYSLDDANHTFSGIDALVSGTTQKMKVDL
EQHLARLSEIFAARGDYLQTLKFIQQMAGSIVVQLSGLPVWREVTMELTKLSDQTGYVEYYRWLSYLLLFILDLV
ICLIACLGLAKRSKCLLASMLCCGALSLLLSWASLAADGSAAVATSDFCVAPDTFILNVTEGQISTEVTRYYLYC
SQSGSSPFQQTLTTFQRALTTMQIQVAGLLQFAVPLFSTAEEDLLAIQLLLNSSESSLHQLTAMVDCRGLHKDYL
DALAGICYDGLQGLLYLGLFSFLAALAFSTMICAGPRAWKHFTTRNRDYDDIDDDDPFNPQAWRMAAHSPPRGQL
HSFCSYSSGLGSQTSLQPPAQTISNAPVSEYMNQAMLFGRNPRYENVPLIGRASPPPTYSPSMRATYLSVADEHL
RHYGNQFPA

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FIGURE 1528

ATGGATGAAGAACCTGAAAGAACTAAGCGATGGGAAGGAGGCTATGAAAGAACATGGGAGATTCTTAAAGAAGAT
GAATCTGGATCACTTAAAGCTACAATAGAAGACATTCTATTCAAGGCAAAGAGAAAAAGAGTATTTGAGCACCAT
GGACAAGTTCGACTTGGAATGATGCGCCACCTTTATGTGGTAGTAGATGGATCAAGAACAATGGAAGACCAAGAT
TTAAAGCCTAATAGACTGACGTGTACTTTAAAGTTGTTGGAATACTTTGTAGAGGAATATTTTGATCAAAATCCT
ATTAGTCAGATTGGAATAATTGTAACTAAGAGTAAAAGAGCTGAAAAATTGACTGAACTTTCAGGAAACCCAAGA
AAACATATAACGTCTTTGAAGAAAGCTGTGGATATGACCTGCCATGGAGAGCCATCTCTTTATAATTCCCTAAGC
ATAGCTATGCAGACTCTAAAACACATGCCTGGACATACAAGTCGAGAAGTACTAATCATCTTTAGCAGCCTTACA
ACTTGCGATCCATCTAATATTTATGATCTAATCAAGACCCTAAAGGCAGCTAAAATTAGAGTATCTGTTATTGGA
TTGTCTGCAGAAGTTCGCGTTTGCACTGTACTTGCTCGTGAAACTGGTGGCACGTACCATGTTATTTTAGATGAA
AGCCATTACAAAGAGTTGCTCACACATCATGTTAGTCCTCCTCCTGCTAGCTCAAGTTCTGAATGCTCACTTATT
CGTATGGGATTTCCTCAGCACACCATTGCTTCTTTATCTGACCAGGATGCAAAACCCTCTTTCAGCATGGCGCAT
TTGGATGGCAATACTGAGCCAGGGCTTACATTAGGAGGCTATTTCTGCCCACAGTGTCGGGCAAAGTACTGTGAG
CTACCTGTTGAATGTAAAATCTGTGGTCTTACTTTGGTGTCTGCTCCCCACTTGGCACGGTCTTACCATCATTTG
TTTCCTTTGGATGCTTTTCAAGAAATTCCCCTAGAAGAATATAATGGAGAAAGATTTTGTTATGGATGTCAGGGG
GAATTGAAAGACCAACATGTTTATGTTTGTGCTGTGTGCCAAAATGTTTTCTGTGTGGACTGTGATGTTTTTGTT
CATGATTCTCTACACTGTTGCCCTGGCTGTATTCATAAGATTCCAGCTCCTTCAGGTGTT**TGA**

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FIGURE 1529

MDEEPERTKRWEGGYERTWEILKEDESGSLKATIEDILFKAKRKRVFEHHGQVRLGMMRHLYVVVDGSRTMEDQD
LKPNRLTCTLKLLEYFVEEYFDQNPISQIGIIVTKSKRAEKLTELSGNPRKHITSLKKAVDMTCHGEPSLYNSLS
IAMQTLKHMPGHTSREVLIIFSSLTTCDPSNIYDLIKTLKAAKIRVSVIGLSAEVRVCTVLARETGGTYHVILDE
SHYKELLTHHVSPPPASSSSECSLIRMGFPQHTIASLSDQDAKPSFSMAHLDGNTEPGLTLGGYFCPQCRAKYCE
LPVECKICGLTLVSAPHLARSYHHLFPLDAFQEIPLEEYNGERFCYGCQGELKDQHVYVCAVCQNVFCVDCDVFV
HDSLHCCPGCIHKIPAPSGV

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FIGURE 1530

GGCCGTGCCTTCTCTCGCTTCGGACTGCGCAACGCTGCGCTCTGGGCTGACAGGCGGATAAAACGGTCCCATCAA
GACTGAGAAAAAGCACACCAGCTATTGGCACAGCGTGGGCAGTGGGGCCTACAGGATGACTGACTTAGTCTACAG
AGATCCCGGCGTACTTAAGCAGATGAAGACTCTTAAGATGACAGAAGGTGATTTTTCTGGTGATCGAGGACTTCC
GGGGTAATGACAGTGATGAA**ATG**CAGGGGACCTGGTTGCCCCCAAGTTTCCTGGCAGTGTGTGATACTGAGGAGG
TGAGCTTGTTTCTGGAGCTGTGCTTTAAGATTCATGTTACATGTAAAGCTGTCCTCATTTGTGACTATGGACCTA
TGGAGTTGGGACAATCTCTATGGGAAGCAGAAGGCAAGGACCCCGGTCATTTTAGG**TAG**AAACAACAGCATGCTA
ATGCAAAAAATTATGCAGTGTGCTACTGAACTTCAGAGGTGATCAATAAAAGAAGAATAAAAAGACTAATAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1531

MQGTWLPPSFLAVCDTEEVSLFLELCFKIHVTCKAVLICDYGPMELGQSLWEAEGKDPGHFR

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FIGURE 1532

CCCTTTAAAGGGTGACTCGTCCCACTTGTGTTCTCTCTCCTGGTGCAGAGTTGCAAGCAAGTTTATCAGAGTATC
GCC**ATG**AAGTTCGTCCCCTGCCTCCTGCTGGTGACCTTGTCCTGCCTGGGGACTTTGGGTCAGGCCCCGAGGCAA
AAGCAAGGAAGCACTGGGGAGGAATTCCATTTCCAGACTGGAGGGAGAGATTCCTGCACTATGCGTCCCAGCAGC
TTGGGGCAAGGTGCTGGAGAAGTCTGGCTTCGCGTCGACTGCCGCAACACAGACCAGACCTACTGGTGTGAGTAC
AGGGGGCAGCCCAGCATGTGCCAGGCTTTTGCTGCTGACCCCAAACCTTACTGGAATCAAGCCCTGCAGGAGCTG
AGGCGCCTTCACCATGCGTGCCAGGGGGCCCCGGTGCTTAGGCCATCCGTGTGCAGGGAGGCTGGACCCCAGGCC
CATATGCAGCAGGTGACTTCCAGCCTCAAGGGCAGCCCAGAGCCCAACCAGCAGCCTGAGGCTGGGACGCCATCT
CTGAGGCCCAAGGCCACAGTGAAACTCACAGAAGCAACACAGCTGGGAAAGGACTCGATGGAAGAGCTGGGAAAA
GCCAAACCCACCACCCGACCCACAGCCAAACCTACCCAGCCTGGACCCAGGCCCGGAGGGAATGAGGAAGCAAAG
AAGAAGGCCTGGGAACATTGTTGGAAACCCTTCCAGGCCCTGTGCGCCTTTCTCATCAGCTTCTTCCGAGGG**TGA**

CAGGTGAAAGACCCCTACAGATCTGACCTCTCCCTGACAGACAACCATCTCTTTTTATATTATGCCGCTTTCAAT
CCAACGTTCTCACACTGGAAGAAGAGAGTTTCTAATCAGATGCAACGGCCCAAATTCTTGATCTGCAGCTTCTCT
GAAGTTTGGAAAAGAAACCTTCCTTTCTGGAGTTTGCAGAGTTCAGCAATATGATAGGGAACAGGTGCTGATGGG
CCCAAGAGTGACAAGCATACACAACTACTTATTATCTGTAGAAGTTTTGCTTTGTTGATCTGAGCCTTCTATGAA
AGTTTAAATATGTAACGCATTCATGAATTTCCAGTGTTCAGTAAATAGCAGCTATGTGTGTGCAAAATAAAAGAA
TGATTTCAGAAAT

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FIGURE 1533

MKFVPCLLLVTLSCLGTLGQAPRQKQGSTGEEFHFQTGGRDSCTMRPSSLGQGAGEVWLRVDCRNTDQTYWCEYR
GQPSMCQAFAADPKPYWNQALQELRRLHHACQGAPVLRPSVCREAGPQAHMQQVTSSLKGSPEPNQQPEAGTPSL
RPKATVKLTEATQLGKDSMEELGKAKPTTRPTAKPTQPGPRPGGNEEAKKKAWEHCWKPFQALCAFLISFFRG

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FIGURE 1534

ATGGCACAGCACGGGGCGATGGGCGCGTTTCGGGCCCTGTGCGGCCTGGCGCTGCTGTGCGCGCTCAGCCTGGGT
CAGCGCCCCACCGGGGGTCCCGGGTGCGGCCCTGGGCGCCTCCTGCTTGGGACGGGAACGGACGCGCGCTGCTGC
CGGGTTCACACGACGCGCTGCTGCCGCGATTACCCGGGCGAGGAGTGCTGTTCCGAGTGGGACTGCATGTGTGTC
CAGCCTGAATTCCACTGCGGAGACCCTTGCTGCACGACCTGCCGGCACCACCCTTGTCCCCCAGGCCAGGGGGTA
CAGTCCCAGGGGAAATTCAGTTTTGGCTTCCAGTGTATCGACTGTGCCTCGGGGACCTTCTCCGGGGGCCACGAA
GGCCACTGCAAACCTTGGACAGACTGCACCCAGTTCGGGTTTCTCACTGTGTTCCCTGGGAACAAGACCCACAAC
GCTGTGTGCGTCCCAGGGTCCCCGCCGGCAGAGCCGCTTGGGTGGCTGACCGTCGTCCTCCTGGCCGTGGCCGCC
TGCGTCCTCCTCCTGACCTCGGCCCAGCTTGGACTGCACATCTGGCAGCTGAGGAGTCAGTGCATGTGGCCCCGA
GAGACCCAGCTGCTGCTGGAGGTGCCGCCGTCGACCGAAGACGCCAGAAGCTGCCAGTTCCCCGAGGAAGAGCGG
GGCGAGCGATCGGCAGAGGAGAAGGGGCGGCTGGGAGACCTGTGGGTG**TGA**

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FIGURE 1535

MAQHGAMGAFRALCGLALLCALSLGQRPTGGPGCGPGRLLLGTGTDARCCRVHTTRCCRDYPGEECCSEWDCMCV
QPEFHCGDPCCTTCRHHPCPPGQGVQSQGKFSFGFQCIDCASGTFSGGHEGHCKPWTDCTQFGFLTVFPGNKTHN
AVCVPGSPPAEPLGWLTVVLLAVAACVLLLTSAQLGLHIWQLRSQCMWPRETQLLLEVPPSTEDARSCQFPEEER
GERSAEEKGRLGDLWV

FIGURE 1536

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GGCACGAGGGACCTGAAGCTGGGGAACATGGTGCTCAACAAGAGGACACATCGGATAACCATCACCAACTTCTGC
CTCGGGAAGCATCTGGTGAGCGAGGGGGACCTGCTGAAGGACCAGAGAGGGAGCCCTGCCTACATCAGTCCCGAC
GTGCTCAGCGGCCGGCCGTACCGTGGCAAGCCCAGTGACATGTGGGCCCTGGGCGTGGTGCTCTTCACCATGCTG
TATGGCCAGTTCCCCTTCTACGACAGCATCCCGCAGGAGCTCTTCCGCAAGATCAAGGCTGCCGAGTATACCATT
CCTGAGGATGGACGGGTTTCTGAGAACACCGTGTGTCTCATCCGGAAGCTGCTGGTCCTTGACCCCCAGCAGCGC
CTGGCCGCCGCCGACGTCCTGGAGGCCCTCAGTGCCATCATTGCATCATGGCAGTCCCTGTCATCTCTGAGTGGG
CCTTTGCAAGTGGTTCCTGACATTGATGACCAAATGAGCAATGCGGATAGCTCCCAGCAGGCGAAGGTGACGGAG
GAGTGCTCCCAGTACGAGTTTGAGAACTACATGCGTCAGCAGCTGCTGCTGGCCGAGGAGAAGAGCTCCATCCAT
GACGCCCGGAGCTGGGTACCCAAGCGGCAGTTCGGCAGCGCACCACCGGTGCGACGGCTGGGCCACGACGCACAG
CCCATGACCTCCTTGGACACGGCCATCCTGGCGCAGCGCTACCTGCGGAAATAACAGCCTCAGCCGGGGCCACCA
GCACTGCTGCCACTTCTTCCAGCCCCAGCCAAAGGCGTGGCTGTCAGGGCTGGGCCCTGTAGTGCTGGACTCTCC
CGGGCCACAATAGGGACAGGGCAGGGACAGGGACAGCCCAGGTCACACGTGGGGTCAGCAGAGGTACCACGAAGC
TACCTTTTGGGATGATTGCTCGATTGTTTGGTTTTTAAATCTGAGAAGCCTAGATAACTAATCTGCTTTTAATCA
CGATGTTTTAATCTACCTCTGTCTCTTTAACCATGCTGTCTCTGGACTGAGCAAGAGGGAGGAGGGAGCCTGCTC
ACCCCACTCCAGGGCCTTCCCCAGCGGCCACCAACTGACCTGGGGCGCTGCTCCCCACAGTCCAAATAAGCTGAA
AGTGCAGCTCGCTGCAGGCCCCAGAGCGAGCTTCCCCTCCTCCCTGCTCTCCCAGGCCCCTGCCACAGCCTCTTT
CCGTCCCTCTCTTTCTGATCCAGGCCCCTCAGTCCAAGCTTTGGAAAACCTTCACCTCATCTTAAACCGAACTCA
AATATATTTATTTTTTTACCATACCAACTTCTCTCCCATCTCTAGGTGGCTCAGTCCATGGCCACTCCCTGCCCC
CAGCCTGGCTGGACAGCAAGGAATCCACAGCCCACACGTGAGCTCCCTCCTCACCCCCAGGCAGGGAAGCCCCTC
CTGCCAGTCCCTGTCCCCTTTCAGCCCACCAGTCCCTCTCTGCTGCCGGTGATGGGAGGCCTTTCTAGACCTGGC
TCTTTCTCTCCCGTCTCAGTGGCTTCTCTGAGGTGCTGTACACGCGCGTTAACCTGTTCCCTTCTCTATCCTTCC
CCGTGGTACTGAGCTCACGTGGACTCCCAGTGCGAAGGGGCCCATGGGTTGGGCTGCAGGCCTGGCCGTGAGCGG
GGGCTGCCTGCACGCTCCCCTAGCCTACTCTTGTGTTTAGGGGATGGTGGGAACATATCCCAGTGCCCTTGCCTC
ATAATAGATGTGGTGACTCTCCCGGTAGACCCTAGCAAGGGTCCTCCATGGTGGTGAGGGACTCAGGAGAATTGT
AGGGATTGGGGGACCCTGCCTGCCTGGCTTGAGAACAGCCCTGCTGCCCTTTTGAGCCGAGATTTTGAAGTGGAT
GCCCGTCTTGCCAGAAATGCTGTTCTCACCAGAATGCCCCCTCCCCTTGCCCTTACTGGACTTGGCCCTGCCTGA
TGCCAAGCAAAGACCCTTCCCCAGAGGCCTACCCCCCATATGTCCTCAGAGAGGCTGAGTGTCCCCTCCAGGCAG
TCATGGGCCCTGAGGCCCCTCCTGCCTGGCCCTGCTCCCCAGTGGGGAGGTGACTGTGTTTCCCAGAGTGTGAGC
CGCTCTCCTCCCCCTAAAAAGCTGACTCACTGTGAGTGACCTTGGGCAAGTTCCCAAACCTCCTTGTGCCTCAGT
TTCCCCATCTGGAAAAAATGGGGCCACCTCTTGCCAGCAGTAGCAGGGCTGCCCACGCCCCTTTCTCCCCATGCC
CCATCCAGCACTTGGGCGACTCATGCCTCTGCCTCAGTGGGCCTGTGGGAGCCTACTGGAGCCCAGCACTTACTC
CCCCTGAGCAGCGAGCCTGCGTCTGTCTCAGCTGTCCAGCGCTGAGGGCCAGGGTCTTGTGCTGTGGGGCTGGGG
GATGCCCTCTTTTCTATATTTATTTCATAGAAAGTCTCCTGCGGGAGCGGAAATGCAGTCCGGCCTAGGGCTCCC
AGCCCTTGACTGTCCTCCTGTGAGGGCCTGAAGCTGGGCCAGGGCCCGTCGCAGCGGAGCCCCCTCTCAGCAGCC
CACCGGGTCCCTCCAGGCTGCTGCCCGTGCGTGGTCTTTCTCCTCCTTTTCAAAGCAATAGCCGCCGGGTCTGCA
AAGCCCTGTCAGACAGACTGGGCCCTTCCAAGGTCAAGCCATGTGTCTGATGACATTCCTGGTGAAGCAAAGGAG
AGGAGGATGGGTCAGCCCTCACTGGGTGTCACACACTGAGAGAAGTCCTATTGTAAAGAAACGGAAAAAGTCACA
AAAAAGTTTGTATAAAGACATATTTTTGTACTACATGGGGACTCTTCCTGCATGTCAGCAATAAAACTTCCTGAT
CTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1537

MVLNKRTHRITITNFCLGKHLVSEGDLLKDQRGSPAYISPDVLSGRPYRGKPSDMWALGVVLFTMLYGQFPFYDS
IPQELFRKIKAAEYTIPEDGRVSENTVCLIRKLLVLDPQQRLAAADVLEALSAIIASWQSLSSLSGPLQVVPDID
DQMSNADSSQQAKVTEECSQYEFENYMRQQLLLAEEKSSIHDARSWVPKRQFGSAPPVRRLGHDAQPMTSLDTAI
LAQRYLRK

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FIGURE 1538

TCCTTTGGTGCCTTGTGACCAGGGCCCTGATGGTTCATTAGATGGAGCCTTCGAGTCTTAGGGAGTTGCCGCAGG
GTCCCCACAGCGGCTCCCGACGGTTGTGAACCAGCATCCATCCTCCACGGATTCCGGCAACCCGCCTGGCCCTGG
ACGTGTCTCAACTGGCCCGCGTGAGGGGCCGCCCCGGAA**ATG**ACGCGCTGCCCCGCTGGCCAAGCGGAAGTGGAG
ATGGCGGAGCTGTACGTGAAGCCGGGCAACAAGGAACGCGGCTGGAACGACCCGCCGCAGTTCTCATACGGGCTG
CAGACCCAGGCCGGCGGACCCAGGCGCTCGCTGCTTACCAAGAGGGTAGCCGCACCCCAGGATGGATCCCCCAGA
GTCCCCGCATCAGAGACTTCTCCTGGGCCTCCCCCAATGGGGCCTCCACCTCCTTCAAGTAAGGCTCCCAGGTCC
CCACCTGTGGGGAGTGGTCCTGCCTCTGGCGTGGAGCCCACAAGTTTCCCAGTCGAGTCTGAGGCTCGACTGATG
GAGGATGTGCTGAGACCTTTGGAACAGGCATTGGAAGACTGCCGTGGCCACACAAGGAAGCAGGTATGTGATGAC
ATCAGCCGACGCCTGGCACTGCTGCAGGAACAGTGGGCTGGAGGAAAGTTGTCAATACCTGTAAAGAAGAGAATG
GCTCTACTGGTGCAAGAGCTTTCAAGCCACCGGTGGGACGCAGCAGATGACATCCACCGCTCCCTCATGGTTGAC
CATGTGACTGAGGTCAGTCAGTGGATGGTAGGAGTTAAAAGATTAATTGCAGAAAAGAGGAGTCTGTTTTCAGAG
GAGGCAGCCAATGAAGAGAAATCTGCAGCCACAGCTGAGAAGAACCATACCATACCAGGCTTCCAGCAGGCTTCA
TAATCCTCGGTTCCCCAGACT

FIGURE 1539

MTRCPAGQAEVEMAELYVKPGNKERGWNDPPQFSYGLQTQAGGPRRSLLTKRVAAPQDGSPRVPASETSPGPPPM
GPPPPSSKAPRSPPVGSGPASGVEPTSFPVESEARLMEDVLRPLEQALEDCRGHTRKQVCDDISRRLALLQEQWA
GGKLSIPVKKRMALLVQELSSHRWDAADDIHRSLMVDHVTEVSQWMVGVKRLIAEKRSLFSEEAANEEKSAATAE
KNHTIPGFQQAS

FIGURE 1540

CAACTCATGGCGGCGGCGGCGGCGGCGGCAGCTGCTTGGGCGCGGTGCGGTGGTGACTGAGCTACGAGCCTGGCG
GCGGGTGTGCGCCGAGCCCCGGCCCGGCCCGGCCCTCGCGTGCCTCCCAGGCTCCGCACCCCTGATGCTGCGCGG
GTGCTGAGCCCGCTTCGGCCGGGACG**ATG**GTGAAGTATTTCCTGGGCCAGAGCGTGCTCCGGAGTTCCTGGGACC
AAGTGTTCGCCGCCTTCTGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAAGACATAGTACACC
GGGAGGTGACCCCTGACCAGAAACTGCTGTCCCGGCGACTCCTGACCAAGACCAACAGGATGCCACGCTGGGCCG
AGCGACTATTTCCTGCCAATGTTGCTCACTCGGTGTACGTCCTGGAGGACTCTATTGTGGACCCACAGAATCAGA
CCATGACTACCTTCACCTGGAACATCAACCACGCCCGGCTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGA
ACTCTGACAACAGTGGCTGGACTGAAATCCGCCGGGAAGCCTGGGTCTCCTCTAGCTTATTTGGTGTCTCCAGAG
CTGTCCAGGAATTTGGTCTTGCCCGGTTCAAAAGCAACGTGACCAAGACTATGAAGGGTTTTGAATATATCTTGG
CTAAGCTGCAAGGCGAGGCCCCTTCCAAAACACTTGTTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAAAGGAGA
CGGCACTGGCAGCTACAGAGAAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAGCAAC
AGTTTGTG**TAG**CCAGTCTACCACCACCACAGCACCCCAGACAGCTAGGCTTAGCCCCTCTGCCCTCCCTTCATTG
TACTTTATCATTAAAAATCAACTTCCAGCCCTGTCTGCTGTCTACGTGGTGGGTTGTGGGGATGCAGTTTGGCAT
CTGCAGTACACCAAGCACATGATTCATGTCTGAGCCAGGTCTGCTTATTCTCCCATTGGGCAGCTGAGGACCGAG
GCACAGAGGTGCGGTGACTTGCCCGGGGCTCCAGGTAGCCTGCAGGTTAACTGGCGGTAAGTGCTAGACTGTAAG
CCCGACAAGGGCAGGGCTTTTGGTTTTGTTCTCTGATGTGTCTCAGTATCTAGCACATAATAGACACTCAATAAA
TACTTGTTGAATTCAAA

FIGURE 1541

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEDIVHREVTPDQKLLSRRLLTKTNRMPRWAERLFPANVA
HSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERCVYCVNSDNSGWTEIRREAWVSSSLFGVSRAVQEFGLAR
FKSNVTKTMKGFEYILAKLQGEAPSKTLVETAKEAKEKAKETALAATEKAKDLASKAATKKQQQQQQFV

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FIGURE 1542

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GGTCGGGACCGGCAAGATGGCGGCGCGGACAGCGTTCGGTGCTGTGTGCCGGCGCCTCTGGCAGGGATTGGGGAA
TTTTTCTGTAAACACTTCTAAGGGCAATACAGCCAAAAATGGTGGCTTGCTTCTCAGTACCAATATGAAGTGGGT
ACAGTTTTCAAACCTACACGTTGATGTTCCAAAGGATTTGACCAAACCTGTGGTAACAATCTCTGATGAACCAGA
CATATTATATAAGCGCCTCTCGGTTTTGGTGAAAGGTCACGATAAGGCTGTATTGGACAGTTATGAATATTTTGC
TGTGCTTGCTGCTAAAGAACTTGGTATCTCTATTAAAGTACATGAACCTCCAAGGAAAATAGAGCGATTTACTCT
TCTCCAATCAGTGCATATTTACAAGAAGCACAGAGTTCAGTATGAAATGAGAACACTTTACAGATGTTTAGAGTT
AGAACATCTAACTGGAAGCACAGCAGATGTCTACTTGGAATATATTCAGCGAAACTTACCTGAAGGGGTTGCCAT
GGAAGTAACAAAGACACAATTAGAACAGTTACCAGAACACATCAAGGAGCCAATCTGGGAAACACTATCAGAAGA
AAAAGAAGAAAGCAAGTCATAAAGCCTCAGGGAGGCCATTTTTGCCTAAATTTGAAATGAGGGTGGGGCCAGATGA
GTATGTTTAAGTGGAGAGTGCTTCCAGCTGAGATGATTTGAGTCTGTCCTAACTGCTCCATTGAGTTCTCGTGCC
CTCATCAGCTGAGGGCAGGGAATGGAACTTTAATGGAAGAACCACTTTTATCTATTCTTTTTATTCATTGTTTCA
GTTCTGATTTCAGCAAACATGAGCAAACCACTTTGACTGAAAGCAGAAAGAGTGAAAATTCTATTTGTTACGCT
ACTGGTGTTCAATTATTAGTTTGTACCATTTTTAATTTATGTCAGTTGATGCATCTGAAAATAAGTGCTTGGAGT
GTTCGTACCCTTATTTTTTTTTAAGATTCCTAGAAGGAATCTTTGGTTAATTCAGATTGAGCAGTTAAAGTTTTT
GCTATTTACCTTTGTGCAGGCTGGCATATGCTAATTTGGGGGTGGTAACCAACCGATTTTATCTCATGTAAGCAT
TACATTTTGAAGACTGAATATACTTCACAGCAGATCAAACACATTTATGGCATGCACTGACCTCTTCTTGGAGCC
CAGAACTTTATAGAGTTGCCTACCAGGGTTACTGTAATGGAATTTATGATCTTAAGAAATTACTAGTTGTATTAT
TTATCCTATGATTCATTCATTCAATAAGCTTTTACTGCATAAACTTTACATCCAGCACTGTAGTTAAGTACCCAA
AATTGAATAGAAATAATGGCTTTTGAAAATTGCACAAAGCAGGCCAGGCACGGTGGCTCACGCCTGTAATCCCAG
CACTTTGGGAGGCCGAGGCAGGCGGATCACGAGGTCAAGAGATCCAGACCATCCTGGCTAACACGGTGAAACCCC
GTCTCTAATAAAAATACAAAAATTAGCTGGACATGGTGGCACGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAG
GCAGGAGAATCGCGTGAACCCGGGCCCGGTGGAGGCTGCAGTGAGACGAGATCGCGCCACTGCACTCCAGCCTGG
CGACAGAGCGAGACACCGTCTCAAAAAAAAAAAAAAAGAAAATTGTGCAAAGCATAGGTAAATATTTTCTTTAT
TAAGCTTCTCACTGAGAAGCCCTCTTTATTTTGGTAAATGTCACTCTGTTTGTTAGGAGATGTCTGCTTTTCCAT
GAAATGAAATAGTGGCTAAAGCCCTGAAAGAGGCAAGACTACAATGGGCTGAAACAGTTGGTATAGCAACCCCAG
AGAAGTGCTTCATTTTCTTTTTATAGTAGAAGCAGGTCCATGTCTTTTGTGGTTCCTGCACATCTTTGGAGTAG
TTATGACTTCTCAGTTTTTCCCCCCTTAAACTGCATTGCCTATTCTTTTTTCCTGACATGCTATCAGGTATCAGT
GTGTTGAATACATAATGCTTGTGTATCAGACTTACGTTACTGTCATCACCATTAAAAGAATTGCAGCCTTGTGCC
CCATGACCTTCA
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FIGURE 1543

MAARTAFGAVCRRLWQGLGNFSVNTSKGNTAKNGGLLLSTNMKWVQFSNLHVDVPKDLTKPVVTISDEPDILYKR
LSVLVKGHDKAVLDSYEYFAVLAAKELGISIKVHEPPRKIERFTLLQSVHIYKKHRVQYEMRTLYRCLELEHLTG
STADVYLEYIQRNLPEGVAMEVTKTQLEQLPEHIKEPIWETLSEEKEESKS

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FIGURE 1544

ATGGCGTCGGTGGTGTTGGCGCTGAGGACCCGGACAGCCGTTACATCCTTGCTAAGCCCCACTCCGGCTACAGCT
CTTGCTGTCAGATACGCATCCAAGAAGTCGGGTGGTAGCTCCAAAAACCTCGGTGGAAAGTCATCAGGCAGACGC
CAAGGCATTAAGAAAATGGAAGGTCACTATGTTCATGCTGGGAACATCATTGCAACACAGCGCCATTTCCGCTGG
CACCCAGGTGCCCATGTGGGTGTTGGGAAGAATAAATGTCTGTATGCCCTGGAAGAGGGGATAGTCCGCTACACT
AAGGAGGTCTACGTGCCTCATCCCAGAAACACGGAGGCTGTGGATCTGATCACCAGGCTGCCCAAGGGTGCTGTG
CTCTACAAGACTTTTGTCCACGTGGTTCCTGCCAAGCCTGAGGGCACCTTCAAACTGGTAGCTATGCTT**TGA**

FIGURE 1545

MASVVLALRTRTAVTSLLSPTPATALAVRYASKKSGGSSKNLGGKSSGRRQGIKKMEGHYVHAGNIIATQRHFRW
HPGAHVGVGKNKCLYALEEGIVRYTKEVYVPHPRNTEAVDLITRLPKGAVLYKTFVHVVPAKPEGTFKLVAML

FIGURE 1546

GCAGACGCAGGGGTCGGCGCCGGGTGAGAGCGTGCGGCCGGATTCACCACAAC**ATG**GCAAATCTTTTTATAAGGA
AAATGGTGAACCCTCTGCTCTATCTCAGTCGTCACACGGTGAAGCCTCGAGCCCTCTCCACATTTCTATTTGGAT
CCATTCGAGGTGCAGCCCCCGTGGCTGTGGAACCCGGGGCAGCAGTGCGCTCACTTCTCTCACCCGGCCTCCTGC
CCCATCTGCTGCCTGCGCTGGGGTTCAAAAACAAGACTGTCCTTAAGAAGCGCTGCAAGGACTGTTACCTGGTGA
AGAGGCGGGGTCGGTGGTACGTCTACTGTAAAACCCATCCGAGGCACAAGCAGAGACAGATG**TAG**ACCCTTTCCC
TCCAGAGTCACGCACATACTCGTCATCGCATCACTTGGGAGAATGGTTGTATCTTATGGAAGGAATTATCACATC
AAGGAGTCAGGGGAAAGTGACTGGAAGCAAACGCCCTAAAAGTTACCCATCACGTTTCAGTGTAAATGAGTAACT
ATAGAAGACATTGCGTTATCTTATTTCCAAAACGTTCCAACTAAAAAACATTTTCCTATTAAAATAGACCTTCCG
ATAAAAAAAAAAA

FIGURE 1547

MANLFIRKMVNPLLYLSRHTVKPRALSTFLFGSIRGAAPVAVEPGAAVRSLLSPGLLPHLLPALGFKNKTVLKKR
CKDCYLVKRRGRWYVYCKTHPRHKQRQM

FIGURE 1548

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TAGTTTGCGTTTTCACCTGGTCGCCCGGCGGCCATGGCGGCCGTTCTGAAGCCGGTGCTGCTGGGCCTTCGAGAT
GCGCCGGTGCACGGCAGCCCCACAGGGCCGGGTGCCTGGACTGCTAGCAAGCTGGGCGGCATTCCGGATGCTCTG
CCCACCGTGGCTGCGCCCAGGCCCGTGTGTCAGCGCTGCGGGCAGCCGCTCGCTCTGGTCGTGCAGGTGTATTGC
CCGCTGGAAGGCTCCCCGTTTCACCGTCTGCTGCACGTGTTCGCGTGCGCCTGCCCCGGCTGTAGCACCGGCGGT
GCGCGCAGCTGGAAGGTGTTCCGCTCCCAGTGCCTGCAGGTGCCAGAGAGAGAGGCGCAGGACGCTCAGAAACAG
GGAAACAGCCTTGCAGCTGAGGACTGGTGTGAAGGTGCTGATGACTGGGGAAGTGATACTGAGGAGGGGCCTTCA
CCACAGTTTACCTTGGATTTTGGGAATGATGCCAGCAGTGCCAAAGACGTAGACTGGACTGCTCGGCTCCAAGAC
CTCCGCCTGCAGGATGCTGTCCTGGGTGCTGCCCATCCTGTGCCTCCTGGGCTGCCGCTCTTCCTGCCCTACTAC
ATCTGTGTTGCAGATGAGGATGATTACAGGGACTTTGTCAACCTGGATCATGCCCACAGCCTTCTGAGGGACTAT
CAGCAGAGAGAAGGCATTGCCATGGATCAGTTGCTTTCCCAAAGCCTTCCTAATGATGGTGATGAAAAATATGAG
AAGACCATAATTAAAAGTGGAGATCAGACGTTTTACAAATTCATGAAGCGAATTGCTGCTTGTCAGGAGCAGATT
TTGAGGTATTCCTGGAGTGGAGAGCCACTCTTTTTGACCTGCCCTACATCAGAAGTCACCGAGCTCCCAGCCTGC
AGCCAGTGTGGAGGCCAAAGGATATTTGAGTTTCAGCTTATGCCAGCACTGGTCAGCATGCTCAAGAGTGCTAAT
TTAGGTCTTTCTGTGGAATTTGGAACAATTCTAGTTTACACATGTGAGAAGAGTTGCTGGCCCCCAAATCATCAG
ACTCCCATGGAAGAATTTTGTATTATACAAGAAGACCCAGATGAATTATTGTTTAAGTAGAGCATTTCCTTTTAT
TAATATAAATTAAAACAAATGTTTACATCCAAAAAAAAAAAAAAAAAAAA
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FIGURE 1549

MAAVLKPVLLGLRDAPVHGSPTGPGAWTASKLGGIPDALPTVAAPRPVCQRCGQPLALVVQVYCPLEGSPFHRLL
HVFACACPGCSTGGARSWKVFRSQCLQVPEREAQDAQKQGNSLAAEDWCEGADDWGSDTEEGPSPQFTLDFGNDA
SSAKDVDWTARLQDLRLQDAVLGAAHPVPPGLPLFLPYYICVADEDDYRDFVNLDHAHSLLRDYQQREGIAMDQL
LSQSLPNDGDEKYEKTIIKSGDQTFYKFMKRIAACQEQILRYSWSGEPLFLTCPTSEVTELPACSQCGGQRIFEF
QLMPALVSMLKSANLGLSVEFGTILVYTCEKSCWPPNHQTPMEEFCIIQEDPDELLFK

FIGURE 1550

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CCTCGCCCCGCCTACGCGGGAACCCAACCGCGGCGACCGGACGTGCACTCCTCCAGTAGCGGCTGCACGTCGTGC
AATGGCCCGCTATGAGGAGGTGAGCGTGTCCGGCTTCGAGGAGTTCCACCGGGCCGTGGAACAGCACAATGGCAA
GACCATTTTCGCCTACTTTACGGGTTCTAAGGACGCCGGGGGGAAAAGCTGGTGCCCCGACTGCGTGCAGGCTGA
ACCAGTCGTACGAGAGGGGCTGAAGCACATTAGTGAAGGATGTGTGTTCATCTACTGCCAAGTAGGAGAAAAGCC
TTATTGGAAAGATCCAAATAATGACTTCAGAAAAAACTTGAAAGTAACAGCAGTGCCTACACTACTTAAGTATGG
AACACCTCAAAAACTGGTAGAATCTGAGTGTCTTCAGGCCAACCTGGTGGAAATGTTGTTCTCTGAAGATTAAGA
TTTTAGGATGGCAATCATGTCTTGATGTCCTGATTTGTTCTAGTATCAATAAACTGTATACTTGCTTTGAATTCA
TGTTAGCAATAAATGATGTTAAAAAAACTGGCATGTGTCTAAACAATAGAGTGCTATTAAAATGCCCATGAACCT
TTAGTTTGCCTGTAATACATGGATATTTTTAAGATATAAAGAAGTCTTCAGAAATAGCAGTAAAGGCTCAAAGGA
ACGTGATTCTTGAAGGTGACGGTAATACCTAAAAACTCCTAAAGGTGCAGAGC
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FIGURE 1551

MARYEEVSVSGFEEFHRAVEQHNGKTIFAYFTGSKDAGGKSWCPDCVQAEPVVREGLKHISEGCVFIYCQVGEKP
YWKDPNNDFRKNLKVTAVPTLLKYGTPQKLVESECLQANLVEMLFSED

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FIGURE 1552

GGCACGAGGGTCATCGCCGCGGGGCGGAGGCGACAGTGTCTAGCGGGAGCTCCGCGTGTAGCTACGCCGGCCGCC
TGGCTTTGAGACAACGTGATTCTCCGCAGCTGGTCGCCTACCCGTGATGTTCTGCCCACGTCGAGACCTGAGCTG
AA**ATG**GCAGACGATCTCGGAGACGAGTGGTGGGAGAACCAGCCGACTGGAGCAGGCAGCAGCCCAGAAGCATCAG
ATGGTGAAGGAGAAGGAGACACAGAAGTGATGCAGCAGGAGACAGTTCCAGTTCCTGTACCTTCAGAGAAAACCA
AACAGCCTAAAGAATGTTTTTTGATACAACCAAAGGAAAGAAAAGAGAATACCACCAAGACCAGGAAAAGAAGAA
AGAAGAAAATTACTGATGTTCTTGCAAAATCAGAACCAAACCAGGGTTACCTGAAGACCTACAGAAGCTGATGA
AGGACTATTATAGCAGCAGACGCTTGGTGATTGAATTAGAAGAACTGAACCTGCCAGACTCCTGTTTCCTCAAGG
CCAATGATTTGACTCACAGTCTTTCCTCATACCTAAAAGGAATTTGTCCTAAGTGGGTAAAACTTAGGAAGAACC
ACAGTGAGAAGAAATCGGTCCTGATGCTGATCATCTGCAGCTCGGCCGTCCGAGCCCTGGAGCTCATTAGGTCGA
TGACAGCATTCAGAGGAGACGGCAAAGTTATAAAATTATTTGCAAAGCACATAAAGGTCCAGGCGCAGGTAAAGT
TGCTGGAGAAGCGTGTGGTGCACCTGGGTGTAGGAACTCCGGGGAGAATTAAAGAACTTGTTAAACAAGGTGGCC
TTAATTTGAGCCCCTTAAAAATTTCTGGTTTTTGACTGGAACTGGAGAGATCAGAAGTTGAGGAGAATGATGGACA
TTCCCGAGATAAGAAAGGAGGTATTCGAACTTCTGGAAATGGGAGTGCTCAGTCTGTGCAAGTCAGAATCCTTGA
AACTGGGCCTTTTC**TAA**GTCTGTGTCCTAATGAAGATTCCAGTTTTCACAGTAGAAGTTGCATCTTATTTAATGA
CTCTGATACATTGCAAGCACTCAGTAAATATCAGCAAATAGTTTATGTTAATTGTGTCAACAGATGGATCACTGG
AATGTGGGGATTCTGAAACAGAAATGAAACTGTCCTTTTGACAACTCTCTTATATAATAAAGTATCACCGGCTTG
TGTATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1553

MADDLGDEWWENQPTGAGSSPEASDGEGEGDTEVMQQETVPVPVPSEKTKQPKECFLIQPKERKENTTKTRKRRK
KKITDVLAKSEPKPGLPEDLQKLMKDYYSSRRLVIELEELNLPDSCFLKANDLTHSLSSYLKGICPKWVKLRKNH
SEKKSVLMLIICSSAVRALELIRSMTAFRGDGKVIKLFAKHIKVQAQVKLLEKRVVHLGVGTPGRIKELVKQGGL
NLSPLKFLVFDWNWRDQKLRRMMDIPEIRKEVFELLEMGVLSLCKSESLKLGLF

FIGURE 1554

GGGTGTTCGACTGCTAGAGCCGAGCGAAGCG**ATG**CCTAAATCAAAGGAACTTGTTTCTTCAAGCTCTTCTGGCAG
TGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTGCTCCAGAAAAACCTGTAAAGAAACA
AAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCAGCAGCAGAGATGATAACATGTTTCA
GATTGGGAAAATGAGGTACGTTAGTGTTCGCGATTTTAAAGGCAAAGTGCTAATTGATATTAGAGAATATTGGAT
GGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATCCAGAACAATGGAGCCAGCTGAAGGA
ACAGATTTCTGACATTGATGATGCAGTAAGAAAACTG**TAA**AATTCGAGCCATATAAATAAAACCTGTACTGTTCT
AGTTGTTTTAATCTGTCTTTTTACATTGGCTTTTGTTTTCTAAATGTTCTCCAAGCTATTGTATGTTTGGATTGC
AGAAGAATTTGTAAGATGAATACTTTTTTTTAATGTGCATTATTAAAAATATTGAGTGAAGCTAATTGTCAACTT
TATTAAGGATTACTTTGTCTGCCCACCACCTAGTGTAAAATAAAATCAAGTAATACAATCTTAACTGTTGTGGCC
TTTTTTGATCATAAGAGTTGGTACTGTTTAAGGCCAAAAGTAACAGTTTTTATAGATCTTTTAGTTTCAACTCAG
CTTTTACAATAAAAAGGATTTGTATTGCATTGAGTTTATAAACTTTTGGTTTGTGAACTTCATATTTGATCTTTT
CTCTTCCAATCAAATGTCTAGGCTTGTTTGACTTCCACCCCCAATGGTTTTTCACTCTTTTTATTTACTTCATTT
TCCTTTAATAACTTAATCTCTTCATGTTCAGTTTTTACTTCACTCTTTATTCTTTTCTTTGATTATGGTATGCTT
ATTTGGAAAGTCAGTGAAACTGTCAAAATGTTATCTCAATAAGATACTTATATGAGAACTACAATCACCGAATCT
ACTGTATTCAATATTAGCAGATCTAATTTGATAAACAACATGGCTTGTGTGAAAACTGAGCAGGTGTTTGTTTAC
CCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTAGATGAGATGTCTGACTTGCTTTCAC
TTATTAAACATGTTCACCATGGGATGATGTCTGTAACATCAGATATTGTTCAACTAGACTAGGATTTAATAAAAA
TTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1555

MPKSKELVSSSSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYVSVR
DFKGKVLIDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDIDDAVRKL

FIGURE 1556

ATTTTCCGGGAAGATGGCGGCGCACAAGTCAGGTCCGGCACATGTTTCCGCGGAGCGGACCCAGCAATGACGGAT
GATATCACCTCTTCTTCTCTGGTGAGAGTCTGAGGATAGAGACTTTTTTCTCACC**ATG**AATGTCACCCCAGAGGT
CAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGGCCTCGGCCG
GAAGGAGAATGGTATCACTCAGGCTCTCAGGGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACCCTGC
CAAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGACTGCGGCCAACTTGGTAGTGGAAACTGGGCA
GGATGGAGTACAGATAAGGAGCCTTTCTAAGGAGACCACCCGTTATAATCATCCCAAGCCCAACTTGCTGTATCA
GAAGTTTGTGAAGATGGCCACATTGACTTCAGGTGGAGAGAAGCCAAACAAAGACTTGGAGAGCTGCAGTGATGA
CGACAACCAGGGGTCCAAGTCCCCAAAGATTCTGACTGATGAGATGCTGCTCCAAGCCTGTGAGGGGCGAACAGC
ACACAAGGCTGCCCGTCTTGGGATCACAATGAAGGCCAAGCTTGCTCGCCTAGAGGCCCAGGAGCAGGCCTTCCT
GGCTCGTCTCAAAGGCCAGGACCCTGGGGCCCCTCAACTGCAGTCAGAGAGCAAGCCCCCCAAAAAAAAAAAAAA
AAA

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FIGURE 1557

MNVTPEVKSRGMKFAEEQLLKHGWTQGKGLGRKENGITQALRVTLKQDTHGVGHDPAKEFTNHWWNELFNKTAAN
LVVETGQDGVQIRSLSKETTRYNHPKPNLLYQKFVKMATLTSGGEKPNKDLESCSDDDNQGSKSPKILTDEMLLQ
ACEGRTAHKAARLGITMKAKLARLEAQEQAFLARLKGQDPGAPQLQSESKPPKKKKK

FIGURE 1558A

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GTGGACCCAGGGTGGGGAACTACCTCTTCCTCTCCACGCGGTTGAGAAGACCGGTCGGCCTGGGCAACCTGCGCT
GAAGATGCCGGGAAAACTCCGTAGTGACGCTGGTTTGGAATCAGACACCGCAATGAAAAAAGGGGAGACACTGCG
AAAGCAAACCGAGGAGAAAGAGAAAAAAGAGAAGCCAAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGA
AACTGTTTTCCCCAAAGCTAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTCTCCTAAATC
CAAAAAGGCAAAAAAGAAAGAGGAGCCATCTCAAAATGACATTTCTCCTAAAACCAAAAGTTTGAGAAAGAAAAA
GGAGCCCATTGAAAAGAAAGTGGTTTCTTCTAAAACCAAAAAAGTGACAAAAAATGAGGAGCCTTCTGAGGAAGA
AATAGATGCTCCTAAGCCCAAGAAGATGAAGAAAGAAAAGGAAATGAATGGAGAAACTAGAGAGAAAAGCCCCAA
ACTGAAGAATGGATTTCCTCATCCTGAACCGGACTGTAACCCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGA
GATAGAGCAGGAAATACCTGTGGAACAAAAAGAAGGCGCTTTCTCTAATTTTCCCATATCTGAAGAAACTATTAA
ACTTCTCAAAGGCCGAGGAGTGACCTTCCTATTTCCTATACAAGCAAAGACATTCCATCATGTTTACAGCGGGAA
GGACTTAATTGCACAGGCACGGACAGGAACTGGGAAGACATTCTCCTTTGCCATCCCTTTGATTGAGAAACTTCA
TGGGGAACTGCAAGACAGGAAGAGAGGCCGTGCCCCTCAGGTACTGGTTCTTGCACCTACAAGAGAGTTGGCAAA
TCAAGTAAGCAAAGACTTCAGTGACATCACAAAAAAGCTGTCAGTGGCTTGTTTTTATGGTGGAACTCCCTATGG
AGGTCAATTTGAACGCATGAGGAATGGGATTGATATCCTGGTTGGAACACCAGGTCGTATCAAAGACCACATACA
GAATGGCAAACTAGATCTCACCAAACTTAAGCATGTTGTCCTGGATGAAGTGGACCAGATGTTGGATATGGGATT
TGCTGATCAAGTGGAAGAGATTTTAAGTGTGGCATACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTT
TTCTGCAACTTGCCCTCATTGGGTATTTAATGTTGCCAAGAAATACATGAAATCTACATATGAACAGGTGGACCT
GATTGGTAAAAAGACTCAGAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGC
AGCAGTTATTGGGGATGTCATCCGAGTATATAGTGGTCATCAAGGACGCACTATCATCTTTTGTGAAACCAAGAA
AGAAGCCCAGGAGCTGTCCCAGAATTCAGCTATAAAGCAGGATGCTCAGTCCTTGCATGGAGACATTCCACAGAA
GCAAAGGGAAATCACCCTGAAAGGTTTTAGAAATGGTAGTTTTGGAGTTTTGGTGGCAACCAATGTTGCTGCACG
TGGGTTAGACATCCCTGAGGTTGATTTGGTTATACAAAGCTCTCCACCAAAGGATGTAGAGTCCTACATTCATCG
ATCCGGGCGGACAGGCAGAGCTGGAAGGACGGGGGTGTGCATCTGCTTTTATCAGCACAAGGAAGAATATCAGTT
AGTACAAGTGGAGCAAAAAGCGGGAATTAAGTTCAAACGAATAGGTGTTCCTTCTGCAACAGAAATAATAAAAGC
TTCCAGCAAAGATGCCATCAGGCTTTTGGATTCCGTGCCTCCCACTGCCATTAGTCACTTCAAACAATCAGCTGA
GAAGCTGATAGAGGAGAAGGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTCAGGTGCCACGTCCGT
AGACCAGCGCTCCTTGATCAACTCAAATGTGGGTTTTGTGACCATGATCTTGCAGTGCTCAATTGAAATGCCAAA
TATTAGTTATGCTTGGAAAGAACTTAAAGAGCAGCTGGGCGAGGAGATTGATTCCAAAGTGAAGGGAATGGTTTT
TCTCAAAGGAAAGCTGGGTGTTTGCTTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGA
TTCACGACGCTGGCAGCTCTCTGTGGCCACAGAGCAACCAGAACTGGAAGGACCACGGGAAGGATATGGAGGCTT
CAGGGGACAGCGGGAAGGCAGTCGAGGCTTCAGGGGACAGCGGGACGGAAACAGAAGATTCAGAGGACAGCGGGA
AGGCAGTAGAGGCCCGAGAGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCCAAAACAAAGGCCAGAA
GCGGAGTTTCAGTAAAGCATTTGGTCAA**TAA**TTAGAAATAGAAGATTTATATAGCAAAAAGAGAATGATGTTTGG
CAATATAGAACTGAACATTATTTTTCATGCAAAGTTAAAAGCACATTGTGCCTCCTTTTGACCACTTGCCAAGTC
CCTGTCTCTTTCAGACACAGACAAGCTTCATTTAAATTATTTCATCTGATCATTATCATTTATAACTTTATTGTT
ACTTCTTCATCAGTTTTTCCTTTTGAAAGGTGTATGAATTCATTACATTTTTATTCTAATGTATTATCTGTAGAT
TAGAAGATAAAATCAAGCATGTATCTGCCTATACTTTGTGAGTTCACCTGTCTTTATACTCAAAAGTGTCCCTTA
ATAGTGTCCTTCCCTGAAATAAATACCTAAGGGAGTGTAACAGTCTCTGGAGGACCACTTTGAGCCTTTGGAAGT
TAAGGTTTCCTCAGCCACCTGCCGAACAGTTTCTCATGTGGTCCTATTATTTGTCTACTGAGACTTAATACTGAG
CAATGTTTTGAAACAAGATTTCAAACTAATCTGGGTTGTAATACAGTTTATACCAGTGTATGCTCTAGACTTGGA
AGATGTAGTATGTTTGATGTGGATTACCTATACTTATGTTCGTTTTGATACATTTTTAGCTTCTCATTATAAGGT
GATTCATGCTTTAGTGAATTCTTCATAGATAGTATATATAAAAGTACATTTTAATAGAAAGCCAGGGTTTTAAGG
AATTTCACATGTATAAGGTGGCTCCATAGCTTTATTTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGT
ACTCCACTTCTTCCTATTGGAAGATTAACATTATTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGC
ATTGCTCAAGAGTATGTAAAAAAAAAAAAAAAAAAAAAAGAACCAAACCACTGGAAATAATCAAATGCAAAAAGGTA
ACAAATTCATAACTGGAAAGCAAAGAGAAGAACAAGTATGATTTGGATGATAAAGCATTGTTTTAATGGTGAAAA
CTTCACAGATCACTAATGTTTCTAGAGGTTAACTTCAAGTGGGCAAGCTGGGGTTTTTAGGTAGTCAGTGGCCTA
GTTCCTAAAGCCACAGTATAGGATCTGTTAAACTGAATGTCTGTTGAAAGTTTGTTTTAGCTGCTTGGAGGCTTC
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FIGURE 1558B

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CTTTTAAGACAAACTGTATGTGATTAAGTTGTTTTGAGGGAACTGAAGAACCTGATGTAGCCCCTGGCCAGATAA
CTGCCTGATTTCTCAGATATTATTTCTCTGGGAAACATTCTACATAGCACAGGAGCTTAAGAGTGGCATTATCTT
CTCGCCTTAATTTCCAGAGATTATTTCTGTACTGAGAATCCTGGAACTACTATGCTAGGAAATTTAAAGCTGCAT
GGTCTGTCTTGTTTTCATTTAATTATTGTGAATACCTAGAATCTTTCTTGGTCCTGATTTCTCTTGCTTAATCCA
GTCTTTATCTCTAACTGCCCCTTATTTGATCACCATGTACTAGGAGCTCTGATAGCCAGCTCAGCTCCTAATCCT
TGAGGCAACATTCTTTTTCTATTTGAACTTCAGTTCTGTCCTTGAATCCCGACTAGATATTTCTTGCCCTCTGGT
CTCAGAATTCTCTTGGCTTTTATTCCTTGATCCACTTGCCAGTTTTATCACTTTACCCTTGTTCCTCATGGCTTC
CCATCAAGCCATGGGTATTAGGTGACAGTGTAATTTATTAGATTCTGGTTTTGCCCAAATACTGGGCATGCTTTA
ATAATAACTGAACCATTTCATTATTTGGATAGGCATGGGTACCTTATCAAGCAGATTAAAAGGATATGGTACCCG
TCCTTTAGAAAAGAACAGCTAAAACCTTGTTGTGGATTATGGATTTAGCCTAAAGAAAAATAATCTGGCATAAAT
TAAGAGTAAGAGAGAAGATTAATAGAAATTTCACTTCACATAACTTAAAACATGGCTATTTCAATAAAGGACTAA
AGTTTCTCCTGGATCCCAGAATTCAACCTGTATTTATAAATGTATAATGTATTTAGCTACTTTTTGGTTTAAATG
AACTTGTTGGGTTAGCTTGGTAAATGTTATAATTTTTACTGTTTTCTACAAAGAAAATATTTTCTAATTTAAGTT
GGAGCTATCTGTGCAGCAGTTTCTCTACAGTTGTGCATAAATGTTTTTACTATAAAATGAGCTAATGTATAAAAT
ACTGCTGTATACCATAATAAAGATAGTAATACTTGAAAAAAA
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FIGURE 1559

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WTQGGELPLPLHAVEKTGRPGQPALKMPGKLRSDAGLESDTAMKKGETLRKQTEEKEKKEKPKSDKTEEIAEEEE
TVFPKAKQVKKKAEPSEVDMNSPKSKKAKKKEEPSQNDISPKTKSLRKKKEPIEKKVVSSKTKKVTKNEEPSEEE
IDAPKPKKMKKEKEMNGETREKSPKLKNGFPHPEPDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIK
LLKGRGVTFLFPIQAKTFHHVYSGKDLIAQARTGTGKTFSFAIPLIEKLHGELQDRKRGRAPQVLVLAPTRELAN
QVSKDFSDITKKLSVACFYGGTPYGGQFERMRNGIDILVGTPGRIKDHIQNGKLDLTKLKHVVLDEVDQMLDMGF
ADQVEEILSVAYKKDSEDNPQTLLFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRA
AVIGDVIRVYSGHQGRTIIFCETKKEAQELSQNSAIKQDAQSLHGDIPQKQREITLKGFRNGSFGVLVATNVAAR
GLDIPEVDLVIQSSPPKDVESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEIIKA
SSKDAIRLLDSVPPTAISHFKQSAEKLIEEKGAVEALAAALAHISGATSVDQRSLINSNVGFVTMILQCSIEMPN
ISYAWKELKEQLGEEIDSKVKGMVFLKGKLGVCFDVPTASVTEIQEKWHDSRRWQLSVATEQPELEGPREGYGGF
RGQREGSRGFRGQRDGNRRFRGQREGSRGPRGQRSGGGNKSNRSQNKGQKRSFSKAFGQ
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FIGURE 1560

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CGAACACGCCGCGGTCCTCGTCGTGGTGAGCGCAGCCACTCAGGCTGGTCCTGGGGGTGGGGCTGTAGGGGAAAG
TGCTAAAGCCGCTGAGTGAAGTAAGAACTCTGCTAGAGAGGAAATGGCTGCTTCATCATCATCCTCCTCAGCTGG
TGGGGTCAGTGGAAGTTCTGTCACTGGATCTGGTTTCAGTGTCTCAGACCTTGCCCCACCACGGAAAGCCCTTTT
CACCTACCCCAAAGGAGCTGGAGAGATGTTAGAAGATGGCTCTGAGAGATTCCTCTGCGAATCTGTTTTTAGCTA
TCAAGTGGCATCCACGCTTAAACAGGTGAAACATGATCAGCAAGTTGCTCGGATGGAAAAACTAGCTGGTTTGGT
AGAAGAGCTGGAGGCTGACGAGTGGCGGTTTAAGCCCATCGAGCAGCTGCTGGGATTCACCCCCTCTTCAGGTTG
ATACTGCCTGGATGGTCACCTCTGGTGCGCAGCAAGTGCAAAGCCAGTGGGGGACTTTCTCACAGCTTACATAGC
CATCCAGAGATCCACAGCTACGTCACTGAATTGTTAATGCACATTTGTACTTGGTTTCTCTGTATCTATTCACAG
GCAACAAATACTTATATGTGTGATCTTTCAGGGAATGTTTTGTTTATTTGTTTTTAAAAGTATTGGGAATCAGAT
TAAGACAATCAGTTTCAGAGAACCAGGAGGTTTGGGGTTAAGAGATACTCAAAAATTTTCACAAGCCAAGTAGGG
CATATATCAGATTTGGCCAACTGAATGGCGTCTGTCCTGTCATCCATATGGTGCCTGGAAATATTTACCAGTCAA
GGTCAAGGTCAGCATCTGTGGTTAAAAATATAGCATTCTGACCTAAAAAAGTTATTTTGCAGATGAATGTGTTTT
CAACTCAGGACCTATCCAAATGAGGAATTTTTAAATATTCTTTTTTTTTTCCTATTTTTAGACATCAATTCTATA
GATTCTGACTTTTTCTAACCTCTTATAGACATGCCAAATGCTGGCAAAAAGAAGTGCTTTTTGGATATGGCAGCA
CTTGTAAAAATAAAGCAGTAAGCAAAATCCTTTTAAACACAGAAATCCTGAGTTCTTCTCATTGGTGGACTCAAG
CAATTCTGTAGCAAATAAATCCTTTGAAAGAGCTCCAAAAAAAAAAAAAAAA
```

FIGURE 1561

MAASSSSSSSAGGVSGSSVTGSGFSVSDLAPPRKALFTYPKGAGEMLEDGSERFLCESVFSYQVASTLKQVKHDQQ
VARMEKLAGLVEELEADEWRFKPIEQLLGFTPSSG

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FIGURE 1562

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AGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGGCGACTTTTTCTGGCCCGGCTGGGCCAATCCTGTCGCTT
AATCCGCAGGAAGATGTCGAGTTTCAAAAGGAGGTGGCGCAGGTTCGCAAGCGCATAACCCAGCGAAAAAAACAA
GAACAACTTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCCAGATCTTTTCATAT
TTCTCCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATAGCAAAGGCTATGCA
TTTGTGGAGTTTGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACTACCTGTTTGGTGAAAGA
CTCTTGGAGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAACTCTTTAAAGACTGGAATATTCCATTTAAG
CAGCCATCATATCCATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTACGGATGGAGGAGCGA
TTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAAGGAATTGACTATGATTTTCCTTCTTTGATT
TTACAGAAAACGGAAAGTATTTCAAAAACTAATCGTCAGACGTCTACAAAAGGCCAGGTTTTACGTAAGAAGAAG
AAAAAAGTTTCAGGTACTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACACCAGTTTGTACACCA
ACATTTTTGGAGAGGCGAAAATCTCAAGTGGCTGAACTGAATGATGATGATAAAGATGATGAAATAGTTTTCAAA
CAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGAAAAAAAGACGAAGA
AGCAGCAATCAGTGATTTTCAATGTATTATATTTCTTTTGAAAAATATAATATTTTTATGAGAGTGGACTTTGTA
TTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTTTGGTCAAGTTAAGG
AAAGCAGTGTGTAATTTTGGATTGCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCTTGCAGTGGCTTGGC
TGACATTGCCTCTCTGTCCTGGCCTCTAGTTTTCTTTTGATATTTCATAGCTCTCCTTAGTTTACTCTGCCTGGA
TAGAAAGTTGACCACTAACTGCAGGTTTAAGTACTAAACTGCAGCCTTTTCTGTCGCCAGCAATTAAAGACCACC
AATCTTGTTTGTCCATCTACATGGTTTGTCGGGGACATTTAACTCATGGAGGTGCTTTAGATTTCAACATCAGAT
GGTTGAAGCTGGAAGTTTAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTTAGCACAGATTTGTTTATGTGTT
CAGATTTTAATAGAGATTCAAAAATGACTCATTTTTACCAATAATGTTAAATTAGTTTTGGTTGTGCTAGCATGA
ATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAACAATAACCAGCAATT
AAACTTTTTTCTACAATGTAAAAAAAAAAAAAAAAAAAA
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FIGURE 1563

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFSYFSQFGTVTRFR
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVHKELFKDWNIPFKQPSYPSVKRYN
RNRTLTQKLRMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGTLDTPE
KTVDSQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPISCVKEEIQETQTPTHSRKKRRRSSNQ

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FIGURE 1564

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AGCGGGTTTGCGGGAGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGGCGACTTTTTCTGGCCCGGCTGGGC
CAATCCTGTCGCTTAATCCGCAGGAAGATGTCGAGTTTCAAAAGGAGGTGGCGCAGGTTCGCAAGCGCATAACCC
AGCGAAAAAAACAAGAACAACTTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCC
AGATCTTTTCATATTTCTCCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATA
GCAAAGGCTATGCATTTGTGGAGTTTGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACTACC
TGTTTGGTGAAAGACTCTTGGAGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAACTCTTTAAAGACTGGA
ATATTCCATTTAAGCAGCCATCATATCAATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTAC
GGATGGAGGAGCGATTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAAGGAATTGACTATGATT
TTCCTTCTTTGATTTTACAGAAAACGGAAAGTATTTCAAAAACTAATCGTCAGACGTCTACAAAAGGCCAGGTTT
TACGTAAGAAGAAGAAAAAAGTTTCAGGTACTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACAC
CAGTTTGTACACCAACATTTTTGGAGAGGCGAAAATCTCAAGTGGCTGAACTGAATGATGATGATAAAGATGATG
AAATAGTTTTCAAACAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGA
AAAAAAGACGAAGAAGCAGCAATCAGTGATTTTCAATGTATTATATTTCTTTTGAAAAATATAATATTTTTATGA
GAGTGGACTTTGTATTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTT
TGGTCAAGTTAAGGAAAGCAGTGTGTAATTTTGGATTGCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCT
TGCAGTGGCTTGGCTGACATTGCCTCTTTGTCCTGGCCTCTAGTTTTCTTTTGATATTTCATAGCTCTCCTTAGT
TTACTCTGCCTGGATAGAAAGTTGACCACTAACTGCAGGTTTAAGTACTAAACTGCAGCCTTTTCTGTCGCCAGC
AATTAAAGACCACCAATCTTGTTTGTCCATCTACATGGTTTGTCGGGGACATTTAACTCATGGAGGTGCTTTAGA
TTTCAACATCAGATGGTTGAAGCTGGAAGTTTAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTTAGCACAGA
TTTGTTTATGTGTTCAGATTTTAATAGAGATTCAAAAATGACTCATTTTTACCAATAATGTTAAATTAGTTTTGG
TTGTGCTAGCATGAATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAAC
AATAACCAGCAATTAAACTTTTTTCTACAATGTATTTGTTTGCGAGTAGGACTTGGGAGTCATTGGAAAAAAAAA
ATAATAAATTTTCCCCTTCATTAACAAAAAAAAAAAAAAAA
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FIGURE 1565

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFSYFSQFGTVTRFR
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVHKELFKDWNIPFKQPSYQSVKRYN
RNRTLTQKLRMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGTLDTPE
KTVDSQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPISCVKEEIQETQTPTHSRKKRRRSSNQ

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FIGURE 1566

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ATTGAANTTAGGTGACCCNATNGAAGNGCTATNACGTNGCATGCACNGCGTACGTAAGCTCGGAATTCGGCTCGA
GAAAAAAAAAAGTGCCAGCGTATGAGGTAATTAGATTGGTTCTCTCCAGAGGTAACCTGCCAAGAAGAGATGCTA
TAGATGTTACTCCTATACTGTAAAACATTGTGAAATCAGATTACTTTAAAATGATGTATTACAAAGTTATGCAAA
AAAGCAGTTGTGACTATGGAAGCCCAAGGCTTATATCCCAGCTCTGTCTTACACTAAATATGGGTACAGTGTTTC
CACTCTGTCCATAAAATGGGAGCTAATATTCTCCAACCTGTGTGCCTGACATGATGGTTAAAGGGATTAAACAAA
ACAATAGTTTGTAATTTATTCTGTCAGAGCAAACTGCTGGTAAATAAAAGGGACTAAGTTGACGAAAAATAAATT
TTAAAAAACCTAATAAAACAAGTTTGTAATTTATAATTGTATACAAATAAAAGATGTTACAAAAATTGCGCACTT
ATATGTATGTACCATGACATAACTAATTCGTTGAACAAGTTGTGAGACAATCCTTTCTGAGAAAAGGTAGACCTG
TTACATCGTCTGTGGGTTAGGGTCATGTCAGCACGTACCAGGTACATTCTAGCTTTTGTAGAGAAAGTAAAATCT
AGTGTTGAGTATGTAGGCACTGAGCCAGGTGGCCTGCTTAACATAAAAGGACTGATTCAGGGTGGCTGTGGGAG
CCTTTCTAATGCTCTAATTCTCTAGCCCCTTGCCTGATCCAGCTGATTCCAAGAGCCAAGATTTTAGTCTTTCTT
GGTTGGCTTTTTTAAATGCTTTGGGCTTTCCTTTAATGTATCTTCAAAATCATTC
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FIGURE 1567

LXLGDPXEXLXRXMHXVRKLGIRLEKKKSASV

FIGURE 1568

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GGCGCTCCGCCTGCTGCGCGTCTACGCGGTCCCCGCGGGCCTTCCGGGCCCACTGCGCCGCGCGGACCGCCTCGG
GCTCGGACGGCCGGTGTCCCCGGCGCGCCGCTCGCCCGGATCGGCCGCGGCTTCGGCGCCTGGGGCTCGGGGCTC
CGGGGAGGCCGTCGCCCGCGATGCTGCTCTCCAAGTTCGGCTCCCTGGCGCACCTCTGCGGGCCCGGCGGCGTGG
ACCACCTCCCGGTGAAGATCCTGCAGCCAGCCAAGGCGGACAAGGAGAGCTTCGAGAAGGCGTACCAGGTGGGCG
CCGTGCTGGGTAGCGGCGGCTTCGGCACGGTCTACGCGGGTAGCCGCATCGCCGACGGGCTCCCGGTGGCTGTGA
AGCACGTGGTGAAGGAGCGGGTGACCGAGTGGGGCAGCCTGGGCGGCGCGACCGTGCCCCTGGAGGTGGTGCTGC
TGCGCAAGGTGGGCGCGGCGGGCGGCGCGCGCGGCGTCATCCGCCTGCTGGACTGGTTCGAGCGGCCCGACGGCT
TCCTGCTGGTGCTGGAGCGGCCCGAGCCGGCGCAGGACCTCTTCGACTTTATCACGGAGCGCGGCGCCCTGGACG
AGCCGCTGGCGCGCCGCTTCTTCGCGCAGGTGCTGGCCGCCGTGCGCCACTGCCACAGCTGCGGGGTCGTGCACC
GCGACATTAAGGACGAAAATCTGCTTGTGGACCTGCGCTCCGGAGAGCTCAAGCTCATCGACTTCGGTTCGGGTG
CGCTGCTCAAGGACACGGTCTACACCGACTTCGACGGCACCCGAGTGTACAGCCCCCCGGAGTGGATCCGCTACC
ACCGCTACCACGGGCGCTCGGCCACCGTGTGGTCGCTGGGCGTGCTTCTCTACGATATGGTGTGTGGGGACATCC
CCTTCGAGCAGGACGAGGAGATCCTCCGAGGCCGCCTGCTCTTCCGGAGGAGGGTCTCTCCAGAGTGCCAGCAGC
TGATCCGGTGGTGCCTGTCCCTGCGGCCCTCAGAGCGGCCGTCGCTGGATCAGATTGCGGCCCATCCCTGGATGC
TGGGGGCTGACGGGGGCGCCCCGGAGAGCTGTGACCTGCGGCTGTGCACCCTCGACCCTGATGACGTGGCCAGCA
CCACGTCCAGCAGCGAGAGCTTG**TGA**GGAGCTGCACCTGACTGGGAGCTAGGGGACCACCTGCCTTGGCCAGACC
TGGGACGCCCCCAGACCCTGACTTTTTCCTGCGTGGGCCGTCTCCTCCTGCGGAAGCAGTGACCTCTGACCCCTG
GTGACCTTCGCTTTGAGTGCCTTTTGAACGCTGGTCCCGCGGGACTTGGTTTTCTCAAGCTCTGTCTGTCCAAAG
ACGCTCCGGTCGAGGTCCCGCCTGCCCTGGGTGGATACTTGAACCCCAGACGCCCCTCTGTGCTGCTGTGTCCGG
AGGCGGCCTTCCCATCTGCCTGCCCACCCGGAGCTCTTTCCGCCGGCGCAGGGTCCCAAGCCCACCTCCCGCCCT
CAGTCCTGCGGTGTGCGTCTGGGCACGTCCTGCACACACAATGCAAGTCCTGGCYTCCGCGCCCGCCCGCCCACG
CGAGCCGTACCCGCCGCCAACTCTGTTATTTATGGTGTGACCCCCTGGAGGTGCCCTCGGCCCACCGGGGCTATT
TATTGTTTAATTTATTTGTTGAGGTTATTTCCTCTGAGCAGTCTGCCTCTCCCAAGCCCCAGGGGACAGTGGGGA
GGCAGGGGAGGGGGTGGCTGTGGTCCAGGGACCCCAGGCCCTGATTCCTGTGCCTGGCGTCTGTCCTGGCCCCGC
CTGTCAGAAGATGAACATGTATAGTGGCTAACTTAAGGGGAGTGGGTGACCCTGACACTTCCAGGCACTGTGCCC
AGGGTTTGGGTTTTAAATTATTGACTTTGTACAGTCTGCTTGTGGGCTCTGAAAGCTGGGGTGGGGCCAGAGCCT
GAGCGTTTAATTTATTCAGTACCTGTGTTTGTGTGAATGCGGTGTGTGCAGGCATCGCAGATGGGGGTTCTTTCA
GTTCAAAAGTGAGATGTCTGGAGATCATATTTTTTTATACAGGTATTTCAATTAAAATGTTTTTGTACATAGAAA
AAAAAAAAAAAAAAAAAAAAGGGCGG
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FIGURE 1569

RSACCASTRSPRAFRAHCAARTASGSDGRCPRRAARPDRPRLRRLGLGAPGRPSPAMLLSKFGSLAHLCGPGGVD
HLPVKILQPAKADKESFEKAYQVGAVLGSGGFGTVYAGSRIADGLPVAVKHVVKERVTEWGSLGGATVPLEVVLL
RKVGAAGGARGVIRLLDWFERPDGFLLVLERPEPAQDLFDFITERGALDEPLARRFFAQVLAAVRHCHSCGVVHR
DIKDENLLVDLRSGELKLIDFGSGALLKDTVYTDFDGTRVYSPPEWIRYHRYHGRSATVWSLGVLLYDMVCGDIP
FEQDEEILRGRLLFRRRVSPECQQLIRWCLSLRPSERPSLDQIAAHPWMLGADGGAPESCDLRLCTLDPDDVAST
TSSSESL

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FIGURE 1570A

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GACCGCGGCTGCAGGAACGGAGGCGGAAGGGGCCCTGCGGCGACGACGTCGTCGACGGGGGTGGCCGTGGGAGCT
GAGCACGGAGAAGACTCCCTCTCTCGGAAGCCGGATCCCGAGCCGGGCAGGATGGATCACCACCAGCCGGGGACT
GGGCGCTACCAGGTGCTTCTTAATGAAGAGGATAACTCAGAATCATCGGCTATAGAGCAGCCACCTACTTCAAAC
CCAGCACCGCAGATTGTGTGCAGGCTGTGTCTTCAGCACCAGCACTTGAAACTGACTCTTCCCCTCCACCATATAGT
AGTATTACTGTGGAAGTACCTACAACTTCAGATACAGAAGTTTACGGTGAGTTTTATCCCGTGCCACCTCCCTAT
AGCGTTGCTACCTCTCTTCCTACATACGATGAAGCTGAGAAGGCTAAAGCTGCTGCAATGGCAGCTGCAGCAGCA
GAAACATCTCAAAGAATTCAGGAGGAAGAGTGTCCACCAAGAGATGACTTCAGTGATGCAGACCAGCTCAGAGTG
GGGAATGATGGCATTTTCATGCTGGCATTTTTCATGGCATTTATTTTCAACTGGCTTGGATTTTGTTTATCCTTC
TGTATCACCAATACCATAGCTGGAAGGTATGGTGCTATCTGCGGATTTGGCCTTTCCTTGATCAAATGGATCCTT
ATTGTCAGGTTTTCTGATTATTTTACTGGATATTTCAATGGACAGTATTGGCTTTGGTGGATATTTCTTGTACTT
GGCCTGCTCCTTTTCTTCAGAGGATTTGTTAATTATCTAAAAGTCAGAAACATGTCTGAAAGTATGGCAGCTGCT
CATAGAACAAGGTATTTCTTCTTATTGTAGAGACTGCATCAACCCGACATTCCTTTCTTATACCAATGTGAAATT
TCCAGATCATCTGTAAACCTACAACTTTAATAGAAGACTACTAATAACAGAAGACAAATTAGTGAAGAAAAGACG
GAGTTTCGAAATTGAATGGCAGGGTGGTTTTTGCTTACAAGCCATTTCTGTTCATTCTTTAAGTATCTATATTTC
ATTTGTTTTGCACATATGCATATGTGCCCATTTAAGATATTTGCATATACTTGATAGAAACCATAAAGTTGTAGC
AGTTAAGTCCAGTCACATTTGGTTAATCAGTGTTTGATATAATTGAAAGAGTTGAGTGGATAAACAGTCTTCCAG
CTTGTAAATGCCATTGACTTCTGACCTGACATTTAGTATAATAAAAATGAAATTCTTAACCATGTCAAATGATTT
AGTTTCTGGCTCTTAGACTCATCTGGCAGTTCTACACATGAAACATCTTTTGTTATATAAGGTGTATTGAAACCT
GCAGTGCTGATTATTAGAAAGGATTTGTCGGATTTTTGAACATGATATTTACATTATTATTTAGGAAAACTCTTC
CTGTAAATAACCATGCATAACTTACTTTCTGCAATGTTTTCTTAGAAATTGTGTCCAGATAGCTTTCACTAATTT
TAAATTAAGTGAACTAAATATATATGTGTATATGTATACACATATATATACACACACACATATATATATTTAGAA
ACGTGAGTGTTAAAGATAGAATTTGTTTTAGGACAAATTTTAAGAAAATGTGGGAATACCAAATGTCCTTTATAA
GAAAAATAAATTTTGTTTTAAGGGACATACCAGTTTTAGGGATTTTCAGATGGGAAGCTGCATTTTTAGGATTGC
CCATCTTAAGAGATCTTGCAGGAAGAGATTGTATTAGATATTATATTTATTTCATTTAAGATAATTTTCAAAGTT
AATTTTCTAAATAAGATAATTCTCATTTGTGTTTGTCTTTTAAAAGGCCAATAAAATATCTTTCAGTATCATTGT
AATAATTTTTTAGAGTTTAATTTGTAAAGCTTAGCAAATAAAATCTTGTACTATGAATAGCTTCTTGCTTTATGA
CTTTAGGATTAACTTGTAAAAAACATATCCTGAACTGAGATATGCAAAATACTCATTTTCAAGTTATGGAAATGT
GTTTGTGGCATATAGGACTGTGGGGTCTGTGTGTGTAGTGAGAGTGTGTAGCCACTATTATAACTGGAATTTAAT
TTACATTCATAAACTACTATATTTCCCATCTTGCAAATCATTTTATGTCTCATCTGTTTTTCCTTTCGGTTATAT
CTTTGGTTTTGAATACCAACATTTAAAATGATGGTATTTTATCTTTTAAACTTAAAAATTATTTAATACAGCTAT
ATGGACCTTATAAAATTGATTTCTTATTTATTATTAGACATTACTACTAAAAGGTACATCTAACTATTCAGGGAC
ATTTTTCCATTTCCAAAAAATAAAATTTATTATGCTTTATAACCTCTTCTGTATTTTCTAATTTTTTCATTGTCT
TTGATAAATAAAACAGTTTTGTTTTGCTAATATAGCCTATTTTTTGTTTTGTCTCATTCAGTTTACTTTCCTGCG
TAGAATTTTTATTGTTATATTAAAATTTTTATTGTTGTATTAAAGTACCTGTGTTACACCCCTTGAAGTAAGACA
GTAGCATGGGGTAAAGAAAAAATATTTAGTTTAGTTGCCTAATTTGGAAGTTAATTAAAAATTAAACTGTACTAAT
AACATATTCAAACTCATGCTGGATCTCTTTCATATTAATTTCTTATAGACCTGTACTTTATTCTTTCAATAATTT
TTAAATGAAATTAAGCTTTGCTACATGGTAATTAAATAATTACTAGGAAGCTTAGCTATCAAACATCGACTTACT
AAAATTTCATTTTAGCTTTTATGGTATATGTGCTTGTTTTCTGAATATGGATACATGTTACTTTTGATCCAGCAT
CAAAACTTCACTTTTTGTTTTGACTTTTCCCCCCAAATCTGTAAGGTTCAAGTATACATATTACTGAATCCTCTA
TAATTGGCATAATTCAATGGTAGCCTTAAATCTCATCATGTAAGCAGGGGAATCAGAATGTTATTTTCAAGAACT
TAATGTTCCCTTCAGATATATAAAATCCTGCATACTTCATTTCCTGTGAGCTTGAACAGCTGCTGTTGTGTTTTG
GGGATGCTTGATCATCTTTGCACTCTGCCTTAAAGATTGAAAAATCAAAACTCTTGTTAGGGTATCTAAACATTT
TTGAGTGTGAACTGGGGATTGGAAGTTAATACAAAAAAATTTCAAATTATTTCTATTGTAAATGAATAAGCTAGT
CATGGCTAGGATAATCCATTTTCATGTATTTATGCAATAAACTGAATTTTAAGGCAAAAACAACACTTTTCTATA
TAGTGTATGCAGGACAGATTTTAGAAACTTAGATTAAAATACAAATCCCATTACATTTGGTTAAAATGAATCTCT
GCTTAATGGAAAAAATACTAATCTTTAGCCTATTTTGAGTCTATAAGATATATTTCATTTTAGACATGCCTTCTA
AGTTGTTCACAGATTTTTACCTGCTAAAACAATATTATTTCCAGTAAAACCTCTCCTAACAGGAAAAGTGGAGTT
CAAAATATCCAATTGGAGAAAAATTCAGAGTTCCTTCATTAAATATAATTTTTTTCATCTAGTATGTACTATTTC
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FIGURE 1570B

AAGAAGTGCAAAAAGTAATGATAGTGAATGTGATACCATACTTAACTAAGGTAATATATATCCTTAGTTTGCTCA
AAAGAGTCCTGGTTATTCCTGTTTTCTCAGCTTAATAGTGCCTCATCGTACTCTCAAAAGTGTTCTAATTTGGAG
GATAAGTTATATGATCATCCTGTGTATAATTGTAGACTGTACCAAGAAGCAACTACCTTAGCTCCACTGCCCTTT
GAGGGATGGAACTGGGGTAAGGGCAGGAGCCAGTTATTATTGCCACAGTGTTTTCTAATGAACCATTTGGCCTGT
AGAAGAGGAATAGTATTTTTTTTAATAGTTGTATTTGAATGATTCCAGCTTATCGTAAATACTAAACTGAATGGC
TTTTATATTTTTAACTGCTGTTAAATGTTATTTTAGCATTTATTAGTTGTTTATTATTTAATTCTTCAAATAGTC
ATATGAAAACATATATTTGATAAAGGTCAATTGTTAGATGATAATGTGCCATTCATTATCATAGGAATGTCCTTG
CCCATATATAAAACATGCTGGCATGTATTTTACTTGTTAATAAAGTTGTATAGATGTGGAAGTGTGAACCTGTGA
TGCATCCTTTTCAAAATCAGTTTAAGATTCGCATATTATCATGACTGTGACCTCACTAAACTGTTTATGTGACAA
ACCTTTCAAGATTGGAGATGAAAACAACACTTGTGAAATTAGGTTGGGGTTGCAACATCTTTTAACTTCTCAGTT
ATTTGTATGTCAGGAAACAGATTGTGGTTTAATTTTAATAAACAAAATATCATCTTTTTGAAAAT

FIGURE 1571

DRGCRNGGGRGPAATTSSTGVAVGAEHGEDSLSRKPDPEPGRMDHHQPGTGRYQVLLNEEDNSESSAIEQPPTSN
PAPQIVQAVSSAPALETDSSPPPYSSITVEVPTTSDTEVYGEFYPVPPPYSVATSLPTYDEAEKAKAAAMAAAAA
ETSQRIQEEECPPRDDFSDADQLRVGNDGIFMLAFFMAFIFNWLGFCLSFCITNTIAGRYGAICGFGLSLIKWIL
IVRFSDYFTGYFNGQYWLWWIFLVLGLLLFFRGFVNYLKVRNMSESMAAAHRTRYFFLL

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FIGURE 1572A

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GCCTTATAAGTGGTTTAGTGCTCAGTTGGCTCTAGTAACCAGAGGACACAGAAAGTATCTTTTGGAAAGTTTAGC
CACCTGTGCTTTCTGACTCAGAGTGCATGCAACAGTTAGATCATGCAACAGTTAGATTATGTTTAGGGTTAGGAT
TTTCAAAGAATGGAGGTTGCTGCACTCAGAAAATAATTCAGATCATGTTTATGCATTATTAAGTTGTACTGAATT
CTTTGCAGCTTAATGTGATATATGACTATCTTGAACAAGAGAAAAAACTAGGAGATGTTTCTCCTGAAGAGCTTT
TGGGGTTGGGAACTATTCTTTTTTAATTGCTGTACTACTTAACATTGTTCTAATTCAGTAGCTTGAGGAACAGGA
ACATTGTTTTCTAGAGCAAGATAATAAAGGAGATGGGCCATACAAATGTTTTCTACTTTCGTTGTGACAACATTG
ATTAGGTGTTGTCAGTACTATAAATGCTTGAGATATAATGAATCCACAGCATTCAAGGTCAGGTCTACTCAAAGT
CTCACATGGAAAAGTGAGTTCTGCCTTTCCTTTGATCGAGGGTCAAAATACAAAGACATTTTTGCTAGGGCCTAC
AAATTGAATTTAAAAACTCACTGCACTGATTCATCTGAGCTTTTGGTTAGTATTCATGGCTAGAGTGAACATAGC
TTTAGTTTTTGCTGTGTAAAAGTGTTTTCATAAGTTCACTCAAGAAAAATGCAGCTGTTCTGAACTGGAATTTTT
CAGCATTCTTTAGAATTTTAAATGAGTAGAGAGCTCAACTTTTATTCCTAGCATCTGCTTTTGACTCATTTCTAG
GCAGTGCTTATGAAGAAAAATTAAAGCACAAACATTCTGGCATTCAATCGTTGGCAGATTATCTTCTGATGACAC
AGAATGAAAGGGCATCTCAGCCTCTCTGAACTTGTAAAAATCTGTCCCCAGTTCTTCCATCGGTGTAGTTGTTGC
ATTTGAGTGAATACTCTCTTGATTTATGTATTTTATGTCCAGATTCGCCATTTCTGAAATCCAGATCCAACACAA
GCAGTCTTGCCGTTAGGGCATTTTGAAGCAGATAGTAGAGTAAGAACTTAGTGACTACAGCTTATTCTTCTGTAA
CATATGGTTTCAAACATCTTTGCCAAAAGCTAAGCAGTGGTGAAGTGAAAAGGGCATATTGCCCCAAGGTTACAC
TGAAGCAGCTCATAGCAAGTTAAAATATTGTGACAGATTTGAAATCATGTTGAATTTCATAGTAGGACCAGTAC
AAGAATGTCCCTGCTAGTTTCTGTTTGATGTTTGGTTCTGGCGGCTCAGGCATTTTGGGAACTGTTGCACAGGGT
GGAGTCAAAACAACCTACATATAAAAAGAGAAAAAGAGAAACTTGTCCATTTAGCTTTCATAAGAAATCCCATGG
CAAAGGGTAATAAAAAGGACCTAATCTTAAAAATACAATTTCTAAGCACTTGTAAGAACCCAGTGGGTTGGAGCC
TCCCACTTTGTCCCTCCTTTGAAGTGGATGGGAACTCAAGGTGCAAAGAACCTGTTTTGGAAGAAAGCTTGGGGC
CATTTCAGCCCCCTGTATTCTCATGATTTTCTCTCAGGAAGCACACACTGTGAATGGCAGACTTTTCATTTAGCC
CCAGGTGACTTACTAAAAATAGTTGAAAATTATTCACCTAAGAATAGAATCTCAGCATTGTGTTAAATAAAAATG
AAAGCTTTAGAAGGCATGAGATGTTCCTATCTTAAATAAAGCATGTTTCTTTTCTATAGAGAAATGTATAGTTTG
ACTCTCCAGAATGTACTATCCATCTTGATGAGAAAACTCTTAAATAGTACCAAACATTTTGAACTTTAAATTATG
TATTTAAAGTGAGTGTTTAAGAAACTGTAGCTGCTTCTTTTACAAGTGGTGCCTATTAAAGTCAGTAATGGCCAT
TATTGTTCCATTGTGGAAATTAAATTATGTAAGCTTCCTAATATCATAAACATATTAAAATTCTTCTAAAATATT
GCTTTTCTTTTAAGTGACAATTTGACTATTCTTATGATAAGCACATGAGAGTGTCTTACATTTTCCAAAAGCAGG
CTTTAATTGCATAGTTGAGTCTAGGAAAAAATAATGTTAAAAGTGAATATGCCACCATAATTACTTAATTATGTT
AGTATAGAAACTACAGAATATTTACCCTGGAAAGAAAATATTGGAATGTTATTATAAACTCTTAGATATTTATAT
AATTCAAAAGAATGCATGTTTCACATTGTGACAGATAAAGATGTATGATTTCTAAGGCTTTAAAAATTATTCATA
AAACAGTGGGCAATAGATAAAGGAAATTCTGGAGAAAATGAAGGTATTTAAAGGGTAGTTTCAAAGCTATATATA
TTTTGAAGGATATATTCTTTATGAACAAATATATTGTAAAAATTTATACTAAGGTCATCTGGTAACTGTGGGATT
AATATGGTCGAAAACAAATGTTATGGAGAAGCTGTCCCAAGCAAACTAAATTACCTGTACTTTTTTCCCATTTCA
AGGGAAGAGGCAACCACATGAAGCAATACTTCTTACACATGCCTAAGAACGTTCATTGAAAAAATAAATTTTTAA
AAGGCATGTGTTTCCTATGCCACCAATACTTTTGAAAAATTGTGAACCTTACCCAAAACCATTTATCATGTCCAT
TAAGTATATTTGGGTATATAATTAGGAAGATATTTACATGTTCCATCTCCACAGTGGAAAAACTTATTGAGGCTA
CCAAAGTGTGCCAAGAAATGTAAGTCCTTAGAGTAATTAGAAATGCTGTTTTCCTCAAAAGCATGAGAAACTAGC
ATTTTCATTTCTTATTTACTCCCTTTCTATATCAATGCAATTCACAACCCAATTTTAATACATCCCTATATCTCA
AGCATTTCTATCTTGTACTTTTTCAGAAAATAAACCAAAAATAATCCTTGGTCTCTCTATCTTCTGACCTTGTAA
GCAACAGAAATGTAAAAACAGAAGGGGTCCAATTTTTACACGTTTTTTTCTCAAGTAGCCTTTCTGGGGATTTTT
ATTTTCTTAATGAAGTGCCAATCAGCTTTTCAAAATGTTTTCTATTTCTCAGCATTTCCAGGAAGTGATAACGTT
TAGCTAAATGAGTAGAAGTGGACTTCCTTCAACATATTGTTACCTTGTCTAGCCTTAGGAAGAAAACAAGAGCCA
CCTGAAAATAAATACAGGCTCTTTTCGAGCATCTGCTGAAATACTGTTACAGCAATTTGAAGTTGATGTGGTAGG
AAAGGAAGGTGACTTTTCTTGCAAAAGTCTTTCTAAACATTCACACTGTCCTAAGAGATGAGCTTTCTTGTTTTA
TTCCGGTATATTCCACAAGGTGGCACTTTTAGAGAAAAACAAATCTGATGAAGACTAAAGAGGTACTTCTAAAAG
AGATTTCATTCTAACTTTATTTTTCTGCGCATATTTAACTCTTTCCTAGCACTTGTTTTTTGGGATGATTAATAG
TCTCTATAATGTTCTGTAACTTCAATATTTTACTTGTTACCTAGGTTCTGAACAATTGTCTGCAAATAAATTGTT
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FIGURE 1572B

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CTTAAGGATGGATAATACACCCATTTTGATCATTTAAGTAAAGAAAGCCTAGTCATTCATTCAGTCAAGAAAAAA
TTTTTGAAGTACCCAGTTACCTTACTTTTCTAGATTAAAACAGGCTTAGTTACTAAAAAGGCAGTCCTCATCTGT
GAACAGGATAGTTTCGTTAGAAGTATAAAACTCCTTTAGTGGCCCCAGTTAAAACACACATACCCTCTCTGCTGC
TTTCAAATTCCCTAGCATGGTGGCCTTTCAACATTGATTAAATTTTAAAATCCTAATTTAAAGATCAGGTGAGCA
AAATGAGTAGCACATCAGTAATTCAGTAGACAAAACTTTTGTCTGAAAAATTGCTGTATTGAAACAGAGCCCTAA
AATACCAAAAGACCAGGTAATTTTAACATTTGTGGAATCACAAATGTAAATTCATAAGAAGCTCTAATTAAAAAA
AAAAGTCTGAAGTATATGAGCATAACAACTTAGGAGTGTGTCTACATACTTAACTTTTGAAGTTTTTTGGCAAC
TTTATATACTTTTTTTAAATTTACAAGTCTACTTAAAGACTTCTTATACCCCAAATGATTAAGTTAATTTTAGAG
GTCACCTTTCTCACAGCAGTGTCACTTGAAATTTAGTAGGGAAGGATATTGCAGTATTTTTCAGTTTCCTTAGCA
CAGCACCACAGAAAGCAGCTTATTCCTTTTGAGTGGCAGACACTCGACGGTGCCTGCCCAACTTTCCTCCTGAGT
GGCAAGCAGATGAGTCTCAGTAATTCATACTGAACCAAAATGCCACATACACTAGGGGCAGTCAGAAACTGGCTG
AGAAATCCCCCGCCTCATTCGCCCCTCTGCTCCCAGGAACTAGAGTCCAGTTAAAGCCCCTATGCGAAAGGCCGA
ATTCCACCCCAGGGTTTGTTATAACAGTGGCCAGTCTGAACCCCATTGCTCGTGCTCAAAACTTGATTCCCACT
TGAAAGCCTTCCGGGCGCGCTGCCTCGTTGCCCCGCCCCTTTGGCAGGAGAGAGGCAGTGGGCGAGGCCGGGCTG
GGGCCCCGCCTCCCACTCACCTGCCGGTGCCTGAAATTATGTGCGGCCCCGCGGGCTGCTTTCCGAGGTCAGAGT
GCCCTGCTGCTGTCTCAGAGGCATCTGTTCTGCAAATCTTAGGAAGAAAAATGTCCCTAGTAGCAAACGGGTGTC
TTCTGTGCATAAATAAGTACAACACAATTCTCCGAAAGTTCGGGTAAAAAGAGATGCGGTAGCAGCTGCCCTGTG
TGAAGCTGTCTACCCCGCATCTCTCAGGCGCTAAGCTCAGTTTTTGTTTTTGTTTTTGTTTTTTTAAAGAAAAGA
TGTATAATTGCAGGAATTTTTTTTTTATTTTTTTATTTTCCATCATTCTATATATGTGATGGTGAAAGATATGCCT
GGAAAAGTTTTGTTTTGAAAAGTTTATTTTCTGCTTCGTCTTCAGTTGGCAAAAGCTCTCAATTCTTTAGCTTCC
AGTTTCTTTTCTCTCTTTTTCTTTGTTAGGTAATTAAAGGTATGTAAACAAATTATCTCATGTAGCAGGGGATTT
TCATGTTGAGAGGAATCTTCCGTGTGAGTTGTTTGGTCACACAAATAACCCTTTCTCAATTTTAGGAGTTTGGAT
TGTCAAATGTAGGTTTTTCTCAAAGGGGGCATATAACTACATATTGACTGCCAAGAACTATGACTGTAGCACTAA
TCAGCACACATAGAGCCACACAATTATTTAATTTCTAACTCTCTGTGGTCCCTAGAAAAAATTCCGTTGATGTGCT
TAGGTTAAAGTTCTGAAGATACCCGTTGTACCCTTACTTGAAAGTTTCTAATCTTAAGTTTTATGAAATGCAATA
ATATGTATCAGCTAGCAATATTTCTGTGATCACCAACAACTCTCAGTTTGATCTTAAAGTCTGAATAATAAAACA
AATCCCAGCAGTAATACATTTCTTAAACCTCACAGTGCATGATATATCTTTTCATTCTGATCCTGTGTTTGCAAA
AATATACACATGTATATCATAGTTCCTCACTTTTTATTCATTTGTTTTCCTATTACCTGTAGTAAATATATTAGT
TAGTACATGGAATTTATAGCATCAGCTACCCCCAGGAACAGCACCTGACAGGCGGGGGATTTTTTTTCAAGTTGT
TCTACATTTGCATAAATTATTTCTATTATTATTCATGTATGTTATTTATTTCTGAATCACACTAGTCCTGTGAAA
GTACAACTGAAGGCAGAAAGTGTTAGGATTTTGCATCTAATGTTCATTATCATGGTATTGATGGACCTAAGAAAA
TAAAAATTAGACTAAGCCCCCAAATAAGCTGCATGCATTTGTAACATGATTAGTAGATTTGAATATATAGATGTA
GTATTTTGGGTATCTAGGTGTTTATCATTATGTAAAGGAATTAAAGTAAAGGACTTTGTAGTTGTTTTTATTAA
ATATGCATATAGTAGAGTGCAAAAATATAGCAAAAATAAAAACTAAAGGTAGAAAAGCATTTTAGATATGCCTTA
ATTTAGAAACTGTGCCAGGTGGCCCTCGGAATAGATGCCAGGCAGAGACCAGTGCCTGGGTGGTGCCTCCTCTTG
TCTGCCCTCATGAAGAAGCTTCCCTCACGTGATGTAGTGCCCTCGTAGGTGTCATGTGGAGTAGTGGGAACAGGC
AGTACTGTTGAGAGGAGAGCAGTGTGAGAGTTTTTCTGTAGAAGCAGAACTGTCAGCTTGTGCCTTGAGGCTTCC
AGAACGTGTCAGATGGAGAAGTCCAAGTTTCCATGCTTCAGGCAACTTAGCTGTGTACAGAAGCAATCCAGTGTG
GTAATAAAAAGCAAGGATTGCCTGTATAATTTATTATAAAATAAAAGGGATTTTAACAACCAACAATTCCCAACA
CCTCAAAAGCTTGTTGCATTTTTTGGTATTTGAGGTTTTTATCTGAAGGTTAAAGGGCAAGTGTTTGGTATAGAA
GAGCAGTATGTGTTAAGAAAAGAAAAATATTGGTTCGCGTAGAGTGCAAATTAGAACTAGAAAGTTTTATACGAT
TATCATTTTGAGATGTGTTAAAGTAGGTTTTCACTGTAAAATGTATTAGTGTTTCTGCATTGCCATAGGGCCTGG
TTAAAACTTTCTCTTAGGTTTCAGGAAGACTGTCACATACAGTAAGCTTTTTTCCTTCTGACTTATAATAGAAAA
TGTTTTGAAAGTAAAAAAAAAAAAATCTAATTTGGAAATTTGACTTGTTAGTTTCTGTGTTTGAAATCATGGTTC
TAGAAATGTAGAAATTGTGTATATCAGATACTCATCTAGGCTGTGTGAACCAGCCCAAGATGACCAACATCCCCA
CACCTCTACATCTCTGTCCCCTGTATCTCTTCCTTTCTACCACTAAAGTGTTCCCTGCTACCATCCTGGCTTGTC
CACATGGTGCTCTCCATCTTCCTCCACATCATGGACCACAGGTGTGCCTGTCTAGGCCTGGCCACCACTCCCAAC
TTGACCTAGCCACATTCATCTAGAGATGGTTCCTGATGCTGGGCACAGACTGTGCTCATGGCACCCATTAGAAAT
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FIGURE 1572C

GCCTCTAGCATCTTTGTATGCATCTTGATTTTTAAACCAAGTCATTGTACAGAGCATTCAGTTTTGGCTGTGGTA
CCAAGAGAAAAACTAATCAAGAATATAAACCACATTCCAGGCTGCTGTTTTCTCTCCATCTACAGGCCACACTTT
TACTGTATTTCTTCATACTTGAAATTCATTCTGCTATTTTCATATCAGGGTACAGACTTATAAGGGTGCATGTTC
CTTAAAGGTGCATAATTATTCTTATTCCGTTTGCTTATATTGCTACAGAATGCTCTGTTTTGGTGCTTTGAGTTC
TGCAGACCCAAGAAGCAGTGTGGAAATTCACTGCCTGGGACACAGTCTTATAAGAATGTTGGCAGGTGACTTTGT
ATCAGATGTTGCTTCTCTTTTCTCTGTACACAGATTGAGAGTTACCACAGTGGCCTGTCGGGTCCACCCTGTGGG
TGCAGCACAGCTCTCTGAAAGCAAGAACCTTCCTACCTATTCTAACGTTTTTGCCCTCTAAGAAAAATGGCCTCA
GGTATGGTATAGACATAGCAAGAGGGGAAGGGCTGTCTCACTCTAGCAACCATCCCTCCATTACACACAGAAAGC
CCTCTTGAAGCAAAAGAAGAAGAAAGAAAGAAAGCTTATCTCTAAGGCTACTGTCTTCAGAATGCTCTGAGCTGA
ATGCTCTTGCTCCTTTCCCAAGAGGCAGATGAAAATATAGCCAGTTTATCTATACCCTTCCTATCTGAGGAGGAG
AATAGAAAAGTAGGGTAAATATGTAACGTAAAATATGTCATTCAAGGACCACCAAAACTTTAAGTACCCTATCAT
TAAAAATCTGGTTTTAAAAGTAGCTCAAGTAAGGGATGCTTTGTGACCCAGGGTTTCTGAAGTCAGATAGCCATT
CTTACCTGCCCCCTTACTCTGACTTATTGGGAAAGGGAGAACTGCAGTGGTGTTTCTGTTGCAGTGGCAAAGGTAA
CATGTCAGAAAATTCAGAGGGTTGCATACCAATAATCCTTTGGAAACTGGATGTCTTACTGGGTGCTAGAATGAA
AATGTAGGTATTTATTGTCAGATGATGAAGTTCATTGTTTTTTTCAAAATTGGTGTTGAAATATCACTGTCCAAT
GTGTTCACTTATGTGAAAGCTAAATTGAATGAGGCAAAAGAGCAAATAGTTTGTATATTTGTAATACCTTTTGT
ATTTCTTACAATAAAAATATTGGTAGCAAATAAAAATAATAAAAACAATAACTTTAAACTGCTTTCTGGAGATGA
ATTACTCTCCTGGCTATTTTCTTTTTTACTTTAATGTAAAATGAGTATAACTGTAGTGAGTAAAATTCATTAAAT
TCCAAGTTTTAGCAGAAAAA

1728/2682
FIGURE 1573

PYKWFSAQLALVTRGHRKYLLESLATCAF

FIGURE 1574

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GCTCGCCGGTCCTCGGCACGCCGCCCGTTCGCCCCTGCGCTGTCCGCCCTTCCCCTAGCGTTACTTCCGGTCCCT
CGCTGAGGGGGTTCGTGCGGCTCCCAGGAGGCGTGAACCGCGGACCATGAGCGTGGGCTTCATCGGGGCCGGCCA
GCTGGCCTATGCTCTGGCGCGGGGCTTCACGGCCGCAGGCATCCTGTCGGCTCACAAGATAATAGCCAGCTCCCC
AGAAATGAACCTGCCCACGGTGTCCGCGCTCAGGAAGATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGT
GAAGCACAGCGACGTCCTGTTTCTGGCTGTGAAGCCACATATCATCCCCTTCATCCTGGATGAGATTGGGGCCGA
CGTGCAAGCCAGACACATCGTGGTCTCCTGTGCGGCTGGTGTCACCATCAGCTCTGTGGAGAAGAAGCTGATGGC
ATTCCAGCCAGCCCCCAAAGTGATTCGCTGCATGACCAACACACCTGTGGTAGTGCAGGAAGGCGCTACAGTGTA
CGCCACGGGCACCCATGCCCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCAC
TGAGGTGGAAGAGGACCTCATCGATGCCGTCACGGGGCTCAGTGGCAGCGGGCCTGCCTATGCATTCATGGCTCT
GGACGCATTGGCTGATGGTGGGGTGAAGATGGGTTTGCCACGGCGCCTGGCAATCCAACTCGGGGCCCAGGCTTT
GCTGGGAGCTGCCAAGATGCTGCTGGACTCGGAGCAGCATCCATGCCAGCTTAAGGACAATGTCTGCTCCCCTGG
GGGAGCCACCATCCACGCCCTGCACTTTCTAGAGAGTGGGGGCTTCCGCTCTCTGCTCATCAATGCAGTTGAGGC
CTCCTGTATCCGAACACGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCTGCCCTTAAGAAGAC
CCTCTTAGACAGAGTGAAGCTGGAATCCCCCACAGTCTCCACACTGACCCCCTCCAGCCCAGGGAAGCTCCTCAC
AAGAAGCCTGGCCCTGGGAGGCAAGAAGGACTAAGGCAGCATCTGTCCCCTCTGTGATTCAGAGCCCTTAGTTGA
GAGCCCCTGCCGCCCCTGCCACCCCCTGCCCCGCTCCCACCATTGCCCCTCCTCAGCTGTGCAAGGAGAAAGCA
TGCTTAGGAAGTTTTCAGGTCCTTGTGATAAAACCTCCTTAAATCTGTTCAGACCAAGCAATGCGAGCTTCCTCT
CCTGTCCCATGTTGGAAGTTGCTCTGAAGGGGTGGTAGATGCTGGAAGCCAGACACAACCCTGCGTACGCTGCTC
AGTTGGTGGAGACTGGGGCTGGGACTGGAGTCAGCCCAGCTGGGAGGAGGGGCTGGGGAGGATCTGCAGCTGAAG
CCCGAGGCAGGGTTGGTGTGATGCCAAGGCAAAGTGGTGAGGAGAAAACAGGAAACGGGCTTTCTCTGAATTGGT
AAATGGGAAAGAAGTGAGCAACTTAAGATTGTCACAATTAATCACAAGTGTACAGGATTAGACTGGGTTTATATT
TAACTCTTGCTTCATAGGTGTACCATTTAAAGAGTGTTATTTAATGCTAAGTTTAACTGCTTTAATAAAGTTTAT
TTTTAAATATCAAAAAAAAAAAAAAA
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FIGURE 1575

MSVGFIGAGQLAYALARGFTAAGILSAHKIIASSPEMNLPTVSALRKMGVNLTRSNKETVKHSDVLFLAVKPHII
PFILDEIGADVQARHIVVSCAAGVTISSVEKKLMAFQPAPKVIRCMTNTPVVVQEGATVYATGTHALVEDGQLLE
QLMSSVGFCTEVEEDLIDAVTGLSGSGPAYAFMALDALADGGVKMGLPRRLAIQLGAQALLGAAKMLLDSEQHPC
QLKDNVCSPGGATIHALHFLESGGFRSLLINAVEASCIRTRELQSMADQEKISPAALKKTLLDRVKLESPTVSTL
TPSSPGKLLTRSLALGGKKD

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FIGURE 1576

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GGAGTTGCGCGGGCTGACGCGCCACTATGTAGCGGGTTTCGGGCGGGCCACGCGTGCGGGACAGGAACCCAACCC
CAGCCGACCTTGAGCTCCAGGAGTTCGTCTCTTACGTCTGCGGAAGTGCAGCTGCCTCAGTTCTTAGCGCAGGTT
GACAACTACAGGCACAAGCCATTGAAGCTGGAATGTCCTGTTGCTGGTATTTCAATTGACTTAAGCCAACTATCC
CTTCAGTTACAATAGGAAAGTGCCTCTAATAAGGCCAAATATGCGTACTAACTTGTAGCAACCACGTGTCCGTGC
AGTGCCACAGGAGCTAGAGCAGTGACAATGCTGGTGGCAACAGGGCAGTGTAGCAGGTGCTTCATGTTCACCTTT
TCAACCTTTTCATTTAATTGTCACAACTCGGAGGTGGATTCTGTTAGGGACAGGCTGCCCCAGGACCACTCCGCC
CCCGCTAACTCAATGCAGCTGACCCTTACCCTGAATACTCTGCAGCTGCATTCCTGAACCGTTATCTAGGCGCTA
TAGCAAGGTCACCAGACTTGCTACACCGAAGCCCTCTGGGTGGCACGGGGGAGGTCATGAGAAACGTGGATTACA
CCCCCTTGTAAATTCCTATTTTCACAAGATAATATATTGTAAGCCGGTCATGAGATTATATGTGGTAAAGTTAAT
TGACTAACAACCCCAGGGTCTCTCTCCCCCATATAAACCCCTCATTTTGTAAGCTCAGGGCTGCCACCTCCGACT
GGTGGAGAAGCCTGGCAGGTTAATAAACTTACTTGGCCTGAC
```

FIGURE 1577

GGGGCGGAGAGAGGCGAGCACCGGGAAGGGGAGCGTGGGGCCGCTGGA**ATG**GGTGAATTTAAGGTCCATCGAGTA
CGTTTCTTTAATTATGTTCCATCAGGAATCCGCTGTGTGGCTTACAATAACCAGTCAAACAGATTGGCTGTTTCA
CGAACAGATGGCACTGTGGAAATTTATAACTTGTCAGCAAACTACTTTCAGGAGAAATTTTTCCCAGGTCATGAG
TCTCGGGCTACAGAAGCTTTGTGCTGGGCAGAAGGACAGCGACTCTTTAGTGCTGGGCTCAATGGCGAGATTATG
GAGTATGATTTACAGGCGTTAAACATCAAGTATGCTATGGATGCCTTTGGAGGACCTATTTGGAGCATGGCTGCC
AGCCCCAGTGGCTCTCAACTTTTGGTTGGTTGTGAAGATGGATCTGTGAAACTATTTCAAATTACCCCAGACAAA
ATCCAGTTTGAAAGAAATTTTGATCGGCAGAAAAGTCGCATCCTGAGTCTCAGCTGGCATCCCTCTGGTACCCAC
ATTGCAGCTGGTTCCATAGACTACATTAGTGTGTTTGATGTCAAATCAGGCAGCGCTGTTCATAAGATGATTGTG
GACAGGCAGTATATGGGCGTGTCTAAGCGGAAGTGCATCGTGTGGGGTGTCGCCTTCTTGTCCGATGGCACTATC
ATAAGTGTGGACTCTGCTGGGAAGGTGCAGTTCTGGGACTCAGCCACTGGGACGCTTGTGAAGAGCCATCTCATC
GCTAATGCTGACGTGCAGTCCATTGCTGTAGCTGACCAAGAAGACAGTTTCGTGGTGGGCACAGCCGAGGGAACA
GTCTTCCATTTTCAGCTGGTCCCTGTGACATCTAACAGCAGTGAGAAGCAGTGGGTGCGGACAAAACCGTTCCAG
CATCACACTCATGACATGCGCACTGTGGCCCACAGCCCAACAGCGCTGATATCTGGAGGCACTGACACCCACTTA
GTCTTTCGTCCTCTCATGGAGAAGGTGGAAGTAAAGAATTACGATGCCGCTCTCCGAAAAATCACCTTTCCCCAC
CGATGTCTCATCTCCTGTTCTAAAAAGAGGCAGCTTCTCCTCTTCCAGTTTGCTCATCACTTAGAACTTTGGCGA
CTGGGATCCACAGTTGCAACAGGCAAGAATGGGGATACTCTTCCACTCTCTAAAAATGCAGATCATTTACTGCAC
CTAAAGACAAAGGGTCCTGAGAACATTATCTGTAGCTGTATCTCCCCATGTGGAAGTTGGATAGCCTATTCTACA
GTTTCTCGGTTTTTTCTCTATCGGCTGAATTATGAACATGACAACATAAGCCTCAAAAGGGTTTCCAAAATGCCA
GCATTCCTTCGCTCTGCCCTTCAGATTTTGTTTTCTGAAGATTCAACAAAGCTCTTTGTAGCATCAAATCAAGGA
GCTCTGCATATTGTTCAGCTGTCAGGAGGAAGCTTCAAGCACCTGCATGCTTTCCAGCCTCAGTCAGGAACAGTG
GAGGCCATGTGTCTTTTGGCAGTCAGTCCAGATGGGAATTGGCTAGCTGCATCAGGTACCAGTGCTGGAGTCCAT
GTCTACAACGTAAAACAGCTAAAGCTTCACTGCACGGTGCCTGCTTACAATTTCCCAGTGACTGCTATGGCTATT
GCCCCCAATACCAACAACCTTGTCATCGCTCATTCGGACCAGCAGGTATTTGAGTACAGCATCCCAGACAAACAG
TATACAGATTGGAGCCGGACTGTCCAGAAGCAGGGCTTTCACCACCTTTGGCTCCAAAGGGATACTCCTATCACA
CACATCAGTTTTCATCCCAAGAGACCGATGCACATCCTTCTCCATGATGCCTACATGTTCTGCATCATTGACAAG
TCATTGCCCCTTCCAAATGACAAAACCTTACTCTACAATCCATTTCCTCCCACGAATGAATCAGATGTCATCCGG
AGGCGCACAGCTCATGCTTTTAAAAATTTCTAAGATATATAAGCCTCTACTCTTCATGGATCTTTTGGATGAAAGA
ACACTCGTGGCAGTAGAACGGCCTCTGGATGACATCATTGCTCAGCTCCCACCACCCATTAAAAAGAAGAAATTT
GGAACC**TAA**AACAGGGCACTGTCTGTGTCCTTCCTTGAACTGTCTACCCTGTTGCTTTTCACAAATCATGGTAAT
AAAACAAGTTATTCTTG

FIGURE 1578

MGEFKVHRVRFFNYVPSGIRCVAYNNQSNRLAVSRTDGTVEIYNLSANYFQEKFFPGHESRATEALCWAEGQRLF
SAGLNGEIMEYDLQALNIKYAMDAFGGPIWSMAASPSGSQLLVGCEDGSVKLFQITPDKIQFERNFDRQKSRILS
LSWHPSGTHIAAGSIDYISVFDVKSGSAVHKMIVDRQYMGVSKRKCIVWGVAFLSDGTIISVDSAGKVQFWDSAT
GTLVKSHLIANADVQSIAVADQEDSFVVGTAEGTVFHFQLVPVTSNSSEKQWVRTKPFQHHTHDMRTVAHSPTAL
ISGGTDTHLVFRPLMEKVEVKNYDAALRKITFPHRCLISCSKKRQLLLFQFAHHLELWRLGSTVATGKNGDTLPL
SKNADHLLHLKTKGPENIICSCISPCGSWIAYSTVSRFFLYRLNYEHDNISLKRVSKMPAFLRSALQILFSEDST
KLFVASNQGALHIVQLSGGSFKHLHAFQPQSGTVEAMCLLAVSPDGNWLAASGTSAGVHVYNVKQLKLHCTVPAY
NFPVTAMAIAPNTNNLVIAHSDQQVFEYSIPDKQYTDWSRTVQKQGFHHLWLQRDTPITHISFHPKRPMHILLHD
AYMFCIIDKSLPLPNDKTLLYNPFPPTNESDVIRRRTAHAFKISKIYKPLLFMDLLDERTLVAVERPLDDIIAQL
PPPIKKKKFGT

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FIGURE 1579

GCGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCCGCCGGGCCCC
AGATCAGGCCGCAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGG
TCCCAGCTATGCCAAAAAAGTTGCGCTCTGGCTTGCTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCGTCTA
TATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCCTGATGAGTTCGACAATGATCCAATTCTGGT
ACAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCCT
TCTCCCAGACCCTCTGCAGGAACCGTACTACCAGCCACCCTACACGCTCGTTTTGGAGCTCACCGGCGTCCTCTT
GCATCCTGAGTGGTCGCTGGCCACTGGCTGGAGGTTTAAGAAGCGCCCAGGCATCGAGACCTTGTTCCAGCAGCT
TGCCCCTTTATATGAAATTGTCATCTTTACGTCAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGA
CCCCCATGGCTTCATCTCCTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATAT
TTCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTA
TAACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTTGGATCTGTCTGCCTTCCTCAA
GACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCGTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGC
GGCTTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAA
GCAGAACCTCTTCCTTGGCTCCCTCACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCT
CAAACTCAGTGCCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTCCAATAAAGTAC
ATCCCAGACGCCACAAAAAAAAAAAAAAAA

FIGURE 1580

TCATCATCCAGAGCAGCCAGTGTCCGGGAGGCAGAAG**ATG**CCCCACTCCAGCCTGCATCCATCCATCCCGTGTCC
CAGGGGTCACGGGGCCCAGAAGGCAGCCTTGGTTCTGCTGAGTGCCTGCCTGGTGACCCTTTGGGGGCTAGGAGA
GCCACCAGAGCACACTCTCCGGTACCTGGTCCTCCACCTAGCCTCCCTGCAGCTGGGACTGCTGTTAAACGGGGT
CTGCAGCCTGGCTGAGGAGCTGCGCCACATCCACTCCAGGTACCGGGGCAGCTACTGGAGGACTGTGCGGGCCTG
CCTGGGCTGCCCCCTCCGCCGTGGGGCCCTGTTGCTGCTGTCCATCTATTTCTACTACTCCCTCCCAAATGCGGT
CGGCCCGCCCTTCACTTGGATGCTTGCCCTCCTGGGCCTCTCGCAGGCACTGAACATCCTCCTGGGCCTCAAGGG
CCTGGCCCCAGCTGAGATCTCTGCAGTGTGTGAAAAAGGGAATTTCAACGTGGCCCATGGGCTGGCATGGTCATA
TTACATCGGATATCTGCGGCTGATCCTGCCAGAGCTCCAGGCCCGGATTCGAACTTACAATCAGCATTACAACAA
CCTGCTACGGGGTGCAGTGAGCCAGCGGCTGTATATTCTCCTCCCATTGGACTGTGGGGTGCCTGATAACCTGAG
TATGGCTGACCCCAACATTCGCTTCCTGGATAAACTGCCCCAGCAGACCGGTGACCGTGCTGGCATCAAGGATCG
GGTTTACAGCAACAGCATCTATGAGCTTCTGGAGAACGGGCAGCGGGCGGGCACCTGTGTCCTGGAGTACGCCAC
CCCCTTGCAGACTTTGTTTGCCATGTCACAATACAGTCAAGCTGGCTTTAGCCGGGAGGATAGGCTTGAGCAGGC
CAAACTCTTCTGCCGGACACTTGAGGACATCCTGGCAGATGCCCCTGAGTCTCAGAACAACTGCCGCCTCATTGC
CTACCAGGAACCTGCAGATGACAGCAGCTTCTCGCTGTCCCAGGAGGTTCTCCGGCACCTGCGGCAGGAGGAAAA
GGAAGAGGTTACCGTGGGCAGCTTGAAGACCTCAGCGGTGCCCAGTACCTCCACGATGTCCCAAGAGCCTGAGCT
CCTCCTCAGTGGAATGGGAAAGCCCCTCCCTCTCCGCACGGATTTCTCT**TGA**GACCCAGGGTCACCAGGCCAGAG
CCTCCAGTGGTCTCCAAGCCTCTGGACTGGGGGCTCTCTTCAGTGGCTGAATGTCCAGCAGAGCTATTTCCTTCC
ACAGGGGGCCTTGCAGGGAAGGGTCCAGGACTTGACATCTTAAGATGCGTCTTGTCCCCTTGGGCCAGTCATTTC
CCCTCTCTGAGCCTCGGTGTCTTCAACCTGTGAAATGGGATCATAATCACTGCCTTACCTCCCTCACGGTTGTTG
TGAGGACTGAGTGTGTGGAAGTTTTTCATAAACTTTGGATGCTAGTGTACTTAAAAAAAAAAAAAA

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FIGURE 1581

MPHSSLHPSIPCPRGHGAQKAALVLLSACLVTLWGLGEPPEHTLRYLVLHLASLQLGLLLNGVCSLAEELRHIHS
RYRGSYWRTVRACLGCPLRRGALLLLSIYFYYSLPNAVGPPFTWMLALLGLSQALNILLGLKGLAPAEISAVCEK
GNFNVAHGLAWSYYIGYLRLILPELQARIRTYNQHYNNLLRGAVSQRLYILLPLDCGVPDNLSMADPNIRFLDKL
PQQTGDRAGIKDRVYSNSIYELLENGQRAGTCVLEYATPLQTLFAMSQYSQAGFSREDRLEQAKLFCRTLEDILA
DAPESQNNCRLIAYQEPADDSSFSLSQEVLRHLRQEEKEEVTVGSLKTSAVPSTSTMSQEPELLLSGMGKPLPLR
TDFS

FIGURE 1582A

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AACCATAGAACATGGGAATAGGTTTTATTTTCATCTCAAGAACATTTAAGTTGGGTGAAGAAATTCAGCTTTTGT
TGTTAGAATCTGACAGGCTTCAAACACTTGTGATGGAGGGGTTGTTGTCATATCAAAGTCCACCTAGTAAAGTTT
TAGGTGACCAGTGACTTTGTCAATTAGGTCTGCTGGTCCTGGCCCAATCCCTAGGACAGTTTGAGAGCCTGGTGC
AATCTGAGTACGTCCAGCATCTTGAATTAAACTTACAGTCAGTCCCAGCATTTTTGCATGGGCCAATAATGCAAT
CAGGGTTTCTTCATCAGGAGCTTTGACCACCACCTTGGGCTGGCCACAGTATTCCCATTGTTTGAGCATTTCAGG
ATTTCTTCTTTGAATCTGCTTGTAGGCTGAAACAGCAGCATGAGAGCACTGGGCAGCCACTTTCCCTTTTCCCAT
CTTTAAGTCATTTCGAACCACAAGAATCATCTTGTACTCCCCGCTGTCTCCCAAGATGCTTGCTTCACTTTCAGT
ATCTGTGTGTGTCTTGCTCGTCTTGCTTTTGGGGAGCATCCCAAAGCATACTCGAAGGCTCCAGCCCCAGGCACA
TGCCACAAGCAACTCCAACAGCCAAGCCGAGTGTACTGGGATGAGCCAAATATTCCATAACCAAGGATTTGGAGG
GCATCTACAGTACCTCCTTTCCTCACTCGCGCCTTCCCTTCTTCTGGGCAGCGAACACGTTTCTATCGCGTGAGC
TACCTCTTCCGGGGGTTCCTGGGTGACAAGTTCCGGATCAAGAATCACAAAGCGAGCAGTCATTCTTCCTCTTGCC
ACACCCACAGGGCCCGCACTAAGAGCCTAACTGAAATCCCGCGAGGATCAACCGAGCTCGCCGAAAGGAGGGAGG
AACGTATCCCTTCTGGAGGCTGTCTCAGGGGGCAGAGGGACCGGACCGGAAGTGACGTGAGCGGGTTCCGGTTGT
CTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCGGGGGT
CGGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGGCAGAGAATGGAAAAAATTGTGACCAGAGACGTGTAGC
AATGAACAAGGAACATCATAATGGAAATTTCACAGACCCCTCTTCAGTGAATGAAAGAAGAGGAGGGAGCGGGA
AGAAAGGCAGAATATTGTCCTGTGGAGACAGCCGCTCATTACCTTGCAGTATTTTTCTCTGGAAATCCTTGTAAT
CTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGCTGTGCT
TATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGTATGC
CTACTGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGGAACAGGGCTGCACACCTTTCTGCTTTATCTGGG
TCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCCGAACCACCCTATCCTGA
TCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCATTTCTTTGTGGAGTATCATCTCAAAAGTTAGGAT
TGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTCATGGCCAGAGCAGCTCGCCT
CTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCACAAGA
CTTTGCCTCCCGGGCCAAACTGGCAGTTCAAAAACTAGTACAGAAAGTTGGATTTTTTGGAATTTTGGCCTGTGC
TTCAATTCCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTGGACCTTCTT
TGGTGCAACCCTAATTGGAAAAGCAATAATAAAAATGCATATCCAGAAAATTTTTGTTATAATAACATTCAGCAA
GCACATAGTGGAGCAAATGGTGGCTTTCATTGGTGCTGTCCCCGGCATAGGTCCATCTCTGCAGAAGCCATTTCA
GGAGTACCTGGAGGCTCAACGGCAGAAGCTTCACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAACTGGTT
GTCCTGGATGTTTGAAAAGTTGGTCGTTGTCATGGTGTGTTACTTCATCCTATCTATCATTAACTCCATGGCACA
AAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAACTAAATAAGTAGAGAAAGTTTTAAACTG
CAGAAATTGGAGTGGATGGGTTCTGCCTTAAATTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCCTTTTCCAAC
CTGTATCAATTTTTACAACTTTTTTCCTGAAAGCAGTTTAGTCCATACTTTGCACTGACATACTTTTTCCTTCTG
TGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGGAATGTGATGTTCAGCAGCA
AACTTGCAACAGACTGGCCTTCTGTTTGTTACTTTCAAAAGGCCCACATGATACAATTAGAGAATTCCCACCGCA
CAAAAAAGTTCCTAAGTATGTTAAAATATGTCAAGCTTTTTAGGCTTGTCACAAATGATTGCTTTGTTTTCCTAA
GTCATCAAAATGTATATAAATTATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTACAATTTAATATTCC
ATCCTGCCCAACCCTTCCTCTCCCATCCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGGAAAT
TGATCTTTAAATTTTGAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTTTATT
CTGTGTATTTAGAATGAAGTCTTGAAAAAAACTTTATAAAGACATCTTTAATCATTCCAAAATTGTGTCCGTTTT
CTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCTAATCCACCTACAACAAGA
ATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGGCTGC
TGCATACTGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTTCTTGGTTTGTGAAAACAGGAGAGGAGAA
ATATCTCATACAAGTGAAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAAACCACACTCTGTCGTATC
TGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTGCCGT
TCTGTAAGTGTTTTATTCTTAGTGTGATTTTTTTCCATTGGGATGTTTTTGATTGAACTTGTTCATTTTGTTTTG
CTTGGGAGGAAAATAAACAATTTTACTTTTTTCCTTTAGGAGCATTATGAGCATTATGTCAGAATAGAATAGAAT
TGGGGTTCGATCTTAACAGGCCAGAAATGCCTGGGTTTTTTTGGTTTGTTTTTGTTTTTGTTTTTTTATCAAATC
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1738/2682
FIGURE 1582B

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CTGCCTGACTGTCTGCTTGTTTTGCCTACCATCGTGACATCTCCATGGCTGTACCACCTTGTCGGGTAGCTTATC
AGACTGATGTTGACTGTTGAATCTCATGGCAACACCAGTCGATGGGCTGTCTGACATTTTGGTATCTTTCATCTG
ACCATCCATATCCAATGTTCTCATTTAAACATTACCCAGCATCATTGTTTATAATCAGAAACTCTGGTCCTTCTG
TCTGGTGGCACTTAGAGTCTTTTGTGCCATAATGCAGCAGTATGGAGGGAGGATTTTATGGAGAAATGGGGATAG
TCTTCATGACCACAAATAAATAAAGGAAAACTAAGCTGCATTGTGGGTTTTGAAAAGGTTATTATACTTCTTAAC
AATTCTTTTTTTCAGGGACTTTTCTAGCTGTATGACTGTTACTTGACCTTCTTTGAAAAGCATTCCCAAAATGCT
CTATTTTAGATAGATTAACATTAACCAACATAATTTTTTTAGATCGAGTCAGCATAAATTTCTAAGTCAGCCTC
TAGTCGTGGTTCATCTCTTTCACCTGCATTTTATTTGGTGTTTGTCTGAAGAAAGGAAAGAGGAAAGCAAATACG
AATTGTACTATTTGTACCAAATCTTTGGGATTCATTGGCAAATAATTTCAGTGTGGTGTATTATTAAATAGAAAA
AAAAAATTTTGTTTCCTAGGTTGAAGGTCTAATTGATACGTTTGACTTATGATGACCATTTATGCACTTTCAAAT
GAATTTGCTTTCAAAATAAATGAAGAGCAGCTGTCCTTCTTTCCTCTTTTAAGTGTTCAGCTGTGGCATGCTCAG
AGGTTCCTGCTGGATTCCAGCTGGAGCGGTGTGATACCCTTCTTTTTCAGCTGTTCGTGCCTTCCTTTCTTGTAT
CCACCAAAGTGGAGACAAATACATGATCTCAAAGATACACAGTACCTACTTAATTCCAGCTGATGGGAGACCAAA
GAATTTGCAAGTGGATGGTTTGGTATCACTGTAAATAAAAAGAGGGCCTGGGAATTCTTGCGATTCCATCTCTAC
TTTGTATAAGTCTCATTTTGTGCCTTACACATCTGCAGTATTTATCATGTTCCAACTTGGTGACTGTCAGGCAGT
GCAATACATCAGCAGTTTATCACCGAAGAGCTGAGGAATACCTCCCTTAAAACAGACAATGTC
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1739/2682
FIGURE 1583

MAENGKNCDQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPHIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMARAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIIK
MHIQKIFVIITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPQGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEEKTK

FIGURE 1584A

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TGCAACGGAAACTTTTAGCTCCACGAACAGAAAAGCAAGAGCAAAAACTCAGTTAAATGCGTTCTTCCTCCATCT
TTGCCTAGTCCAAAAGGAAAAAAAAAAAAAAAGAAACAGAAAAAGAAAAACTGTTTGGAAGAGTAGCGTTGAGG
TTTGCTTTTTACCTGTTTTTCCTCTAGAACAGCCAGGTGGATTCACATGATCCAATTTTTTAATTGTCTTCTATG
TCCCACTCCGAATAACCCGGATGCCCCAGCACAATCAGAGAGATCGTTTTTTTTTAAAAAAAAATTTCAGCCTCCAA
AGGTAGGAGGGGAGTGTTAGGGGAGAAAGTACTTTAATTAAAAATCAATAACTCGAGGTTTTTGGGATACGGTTT
GCCATTTCCTAATTAAGAAATGGGTTTGACAGTCCCTTTGTACACACTGCTATGCAAACCCCAAAGGGTTGGCGG
CTGTCCGGGCGATGACACTCCGGTCCCCTGCGAGACCCCGGGCCAGCCAGGCCCCTCCGCCGCCGGCCTCTGGGG
TCCGTCCCCGGAAGCAAGGCTCGCGCAGACCTCTCGCTTCTCTCGGCTCTGTCTCCTGCGCTCAGCTCTGCTCGG
GGCCGGCCGCCTCAGGCTCGCCGCCACCAGGTCGTTGCAAATACCTTTTCCCTCCCCGGGGCCCCAGCGCGCGGC
CACCTCCCAGCCTCCCCCCCTCCCACCCTGGCAGCGGGGCCCTTTCCCGGCTCAGGAACAGCAGCAGCCCGGGCC
GCGCCGGCAGGAAGCGAGGCCCATGTTGCTGCTGTTCCCTGGCGCGCCTCCCCGCCCTCCGGGGGCCGCCACGGC
TCTTCCGCGCTCCCGGGCACCCCCCTCCGCGCCTGCGCTGTGCCCCACGGGGGCGGGGCTCAGATTCCTGTCAGC
GGCGGCGGCGGTGGCGGCGACCGTCAGTTTTCGCTGAGGAGAAACACGAAACGGACCCTTTGGCTCTCCCCCTTC
CCCTTCCCCGTCCTGAACCCCTCTCCTGGTCACCGAGAATCAGTCCCCGTGGAGTTCCCCCTCCACCTCGCCATC
GTTTCCTCGGTCCTCGGCCCAGTGGAAGTCACTACCCTCGAGGAGGAGGCAGCGGCAGCCGCCCTCGCGTCGCCG
CCCCCGGTTCGGTGCCCGCGGTCCCGGAGAGGAGGTGCCGCCGCCACCGCCGCTCCCCCCCTCCCGCTGCCCTCG
GGCCGGGCTGGGTCGAGCTGCGATGCCCTCGGACTTCATCTCATTGCTCAGCGCGGACCTAGACCTGGAATCGCC
CAAGTCCCTCTACTCGCGAGATTCTCTGAAGTTACACCCATCACAGAATTTTCATAGAGCTGGACTATTGGAAGA
ATCTGTCTATGATCTTCTCCCAAAGGAGTTACAGTTACCTCCATCTAGAGAAACATCTGTAGCATCAATGAGTCA
GACAAGCGGTGGTGAGGCAGGCTCGCCTCCTCCAGCTGTTGTTGCTGCTGGATTTGCCTCTGAAGCAGGGAGTGT
CTGCATTAAAAATGACCTGTAGTTCTCTGCTTCATAGATGCTTCTTCAGCTCCCTCCTCTTCCTCC**ATG**GCGGT
GCTTGCAGCTCCTTTACCACCTCTTCCAGCCCTACCATTTATTCTACCTCAGTCACCGACAGCAAGGCTATGCAA
GTGGAGAGCTGCTCCTCAGCCGTGGGGGTAAGTAACAGAGGGGTAAGTGAAAAGCAGTTAACCAGTAACACAGTT
CAGCAGCATCCATCAACACCGAAGAGGCACACAGTCTTGTACATCTCACCACCACCTGAGGACTTGCTGGATAAC
AGTCGGATGTCCTGCCAGGATGAGGGGTGTGGATTGGAATCTGAGCAGAGCTGCAGTATGTGGATGGAGGATTCC
CCCTCCAACTTCAGTAACATGAGCACCAGTTCCTACAATGATAACACTGAGGTACCTCGTAAATCACGAAAACGA
AATCCAAAGCAGAGGCCGGGGGGTCAAACGACGAGATTGTGAAGAATCTAATATGGATATATTTGATGCCGACAGT
GCCAAAGCACCTCACTATGTGCTTTCTCAGCTTACCACGGACAACAAAGGCAACTCAAAAGCGGGAAATGGAACA
TTGGAAAACCAAAAAGGAACTGGAGTAAAGAAGAGCCCTATGTTGTGTGGACAATATCCTGTTAAAAGTGAGGGA
AAGGAGCTGAAGATAGTTGTACAACCTGAGACACAGCACCGAGCTCGGTACCTGACTGAGGGCAGCCGTGGCTCA
GTGAAAGATAGAACACAGCAAGGCTTTCCTACAGTAAAGCTGGAAGGCCATAATGAACCTGTAGTGTTGCAAGTG
TTTGTGGGCAACGACTCTGGACGAGTGAAACCACATGGATTTTATCAGGCCTGCAGAGTAACTGGACGAAATACA
ACTCCTTGCAAAGAAGTGGACATTGAAGGCACTACTGTTATAGAAGTCGGCCTTGATCCTAGCAACAACATGACA
CTGGCGGTGGACTGCGTAGGGATATTGAAATTGAGGAATGCTGATGTCGAAGCCAGAATAGGAATTGCTGGTTCC
AAGAAGAAAAGCACTCGTGCCAGATTGGTTTTTCGAGTTAATATCATGAGGAAAGATGGCTCCACTTTGACACTG
CAAACACCCTCTTCTCCAATTTTGTGTACTCAGCCAGCAGGAGTGCCAGAAATCTTAAAGAAAAGCTTGCATAGC
TGTTCAGTGAAAGGAGAAGAAGAAGTGTTTTTAATCGGCAAGAACTTTCTGAAAGGAACTAAAGTTATTTTCCAA
GAAAATGTTTCTGATGAAAACTCTTGGAAGTCAGAAGCTGAAATTGATATGGAACTATTTCATCAGAATCATCTT
ATTGTGAAGGTTCCTCCCTATCATGACCAACATATAACTTTGCCTGTGTCAGTGGGAATATATGTAGTGACAAAT
GCTGGAAGATCTCATGATGTTCAACCATTCACTTACACTCCAGACCCAGCAGCAGCTGGTGCTTTGAATGTAAAT
GTGAAGAAGGAAATATCTAGTCCAGCAAGACCTTGCTCTTTTGAAGAGGCCATGAAAGCAATGAAAACTACTGGA
TGTAATTTAGATAAGGTAAATATTATCCCTAATGCCCTGATGACTCCACTCATACCAAGCAGTATGATTAAGAGT
GAAGATGTTACTCCAATGGAGGTAACAGCAGAAAAAGATCTTCCACTATTTTTAAGACTACAAAGTCTGTTGGA
TCAACTCAGCAAACATTAGAAAACATCTCAAACATAGCAGGAAATGGCTCTTTTTCATCACCATCATCTTCCCAC
CTACCTTCTGAAAATGAAAAACAGCAGCAGATTCACGCCAAGGCATACAACCCAGAGACCCTGACAACTATTCAA
ACCCAGGACATCTCACAGCCTGGTACTTTTCCAGCAGTTTCTGCTTCTAGTCAGCTGCCCAACAGCGATGCACTA
TTGCAGCAGGCTACACAGTTTCAGACAAGAGAAACTCAGTCTAGAGAGATATTACAGTCAGATGGTACAGTGGTT
AATTTGTCACAACTGACTGAGGCATCACAACAACAGCAGCAGTCACCACTACAAGAACAAGCACAGACTTTACAG
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FIGURE 1584B

CAGCAGATTTCATCAAATATTTTTCCATCACCAAATAGTGTGAGTCAGCTTCAGAATACTATTCAGCAGCTGCAA
GCAGGGAGTTTCACAGGCAGTACTGCTAGTGGCAGCAGTGGAAGTGTTGACTTGGTCCAACAAGTTTTAGAGGCA
CAGCAGCAGTTATCTTCAGTTTTATTTTCTGCTCCAGATGGTAATGAGAATGTTCAAGAGCAGCTTAGTGCAGAT
ATTTTTCAACAAGTCAGTCAAATTCAGAGTGGTGTAAGCCCTGGAATGTTTTCCTCAACAGAGCCAACAGTCCAT
ACCAGACCAGATAATTTATTACCTGGAAGAGCTGAAAGTGTTCATCCACAGTCTGAAAACACGTTATCTAATCAA
CAGCAGCAGCAGCAGCAGCAACAGCAAGTGATGGAATCTTCAGCCGCAATGGTGATGGAGATGCAACAGAGTATC
TGCCAGGCAGCTGCCCAGATTCAGTCAGAGTTATTCCCTTCAACTGCTTCAGCAAATGGAAACCTTCAGCAATCG
CCAGTTTACCAGCAGACTTCTCACATGATGAGTGCATTGTCTACCAATGAGGATATGCAAATGCAGTGTGAATTG
TTTTCTTCTCCTCCTGCAGTTTCTGGAAATGAAACTTCTACAACTACCACACAGCAGGTTGCAACCCCTGGCACT
ACCATGTTTCAGACATCAAGTTCAGGAGATGGAGAAGAAACTGGAACACAAGCAAAACAGATTCAGAACAGTGTC
TTTCAGACCATGGTCCAAATGCAACATAGTGGGGACAATCAACCTCAAGTTAACCTTTTTTCATCCACAAAAAGT
ATGATGAGTGTTCAGAATAGTGGTACCCAACAACAAGGTAATGGTTTATTCCAGCAAGGGAATGAGATGATGTCA
CTTCAATCTGGAAATTTTTTGCAGCAGTCTTCTCATTCACAGGCCCAACTTTTTCATCCTCAAAATCCTATTGCC
GATGCTCAGAACCTTTCCCAGGAAACTCAAGGTTCTCTCTTTCATAGTCCAAATCCTATTGTCCACAGTCAGACT
TCTACAACCTCCTCTGAACAAATGCAGCCTCCAATGTTTCACTCTCAAAGTACCATTGCTGTGTTACAGGGCTCT
TCAGTTCCTCAAGACCAGCAGTCAACCAACATATTTCTTTCCCAGAGTCCCATGAATAATCTTCAGACTAACACA
GTAGCCCAAGAAGCATTTTTTGCAGCACCGAACTCAATTTCTCCACTTCAGTCAACATCAAACAGTGAACAACAA
GCTGCTTTCCAACAGCAAGCTCCAATATCACACATCCAGACTCCTATGCTTTCCCAAGAACAGGCACAACCCCCG
CAGCAGGGTTTATTTCAGCCTCAGGTGGCCCTGGGCTCCCTTCCACCTAATCCAATGCCTCAAAGCCAACAAGGA
ACCATGTTCCAGTCACAGCACTCAATAGTTGCCATGCAGAGTAACTCTCCATCCCAGGAACAGCAGCAGCAGCAG
CAACAGCAGCAGCAACAGCAGCAGCAACAACAACAGAGCATTTTATTCAGTAATCAGAATACCATGGCTACAATG
GCGTCTCCAAAGCAACCACCACCAAACATGATATTCAACCCAAATCAAAATCCAATGGCTAATCAGGAGCAACAG
AACCAGTCAATTTTTCACCAACAAAGTAACATGGCCCCAATGAATCAAGAGCAACAGCCCATGCAATTTCAGAGT
CAGTCCACAGTTTCCTCACTTCAGAACCCAGGTCCTACCCAGTCGGAATCATCACAGACCCCCTTGTTCCATAGC
TCTCCTCAGATTCAGTTGGTACAAGGGTCACCTAGTTCTCAAGAGCAGCAAGTAACTCTCTTCTTATCTCCAGCA
TCCATGTCTGCCTTGCAGACCAGTATAAATCAACAAGATATGCAACAGTCTCCTCTTTATTCCCCTCAGAACAAC
ATGCCTGGAATTCAAGGAGCCACATCTTCGCCTCAACCACAGGCTACTTTATTTCACAACACAGCAGGAGGCACA
ATGAACCAACTGCAGAATTCTCCTGGCTCATCTCAGCAGACATCAGGAATGTTCTTATTTGGCATTCAAAATAAC
TGTAGTCAGCTTTTAACCTCTGGACCAGCTACATTGCCTGATCAGTTGATGGCCATAAGTCAGCCAGGCCAACCA
CAAAACGAGGGCCAGCCACCTGTGACAACACTTCTTTCTCAGCAAATGCCAGAGAATTCTCCACTGGCATCCTCT
ATAAACACCAACCAGAACATCGAAAAGATTGATTTGCTTGTTTCATTGCAAAACCAAGGGAACAACTTGACTGGC
TCCTTT**TAA**CTGGATATAAATTCCACGAAGAAAATCCTGATTCCAAGATGTCCTGAGATCTTGTGGTTCCATGAG
AATTATTACTTTAAAAACAAAACAAAATATAAAAAACTGTGTTTGAGTAAACTGATAGATTTTACTCTGACTGCA
AAAGAGCACACCTATGCTGCTTGTTGCAGTGACTAACCACCAATGTTAACATCTTCATATTTTATATTCCTAATA
ACAGTGATGACTGAGAATCTATTTGAGTTTCCAGCTGGCAGAATTAATTGTTATTATTTTCCTAGGCGCAATTTC
CTTAAACGTACAGTTTAAATTCAAGGCTGGACCACTCAGTTATTATTGCTATTAGAAAATAATATATCATGTTTA
CTTTTGTTCTTCATTATTTTCTTTCCTGCATTGTTTTAGTCAAGTAATGGCTTTTGAAAAAGTAAAGTTCAATAA
TAACTAAGGCTGTGATTTTTTTCAATATAAAAGGCACAGCTGTTGGCCAAAGTGAAGGAATCTTTTTTCAGTTTT
ATTGGAGAAACTGAAGGGTAACATTCTAACAAGTAAACTGTATGTGCAGATAGAAGTACTCTTGATTTAACACAA
AGGCAGATGATACACTTATAAAACTGGGAACAGCTGGAATGCTTCTTGATTTATTTTTTCAGAGAGTTGTTAGT
TCTCTGGGTTTCTACTAAGGGGTTTAGCCATAACTGTGCATAGAAAAATAATTATCTGTAAAAAATGAAGGGGAT
AATATATGATAAATTATGTTCTGATATCCTCCTACAGTAGTTTAAATTGACAGAAAAATTTGAATGTTTTCTTCT
TAACCCAGTCTTAGGCTGGTATTCCCTTTTTATATATATCTATATTACTTTTCACCTCTTTTTCACTTTACTTTA
GAGAACTATTAATATACTACTGGCTTCATGACCCTGTAGCATCTTTGGCCACTTTAATCTAGGGTGACCTAGCAA
TCCTGCAGCACAGGGCAGAGAGTACTGTCTTAGGAATTATTAGGAGTTGATTCCTGAGAAACAACACATTTTTCC
CCATGAACGGTGCTGTTCTGAAGTCTTCAAATTTTTCCCTCTAATAGGAAACAGTATAAATTTTAATTAAAAAAA
AAAGGCAAACTAAAATTTCTTGAAATATCACTTCTCCCTGATCTGCAGTGAGTATAAATTCACTTGTCACCTCAG
TGCTTTACAGTTTGAAGTGGTCACTTACCTGATGGTTCCCACAAGCCTTAGGCTTTACAGGGTTGTATCATTGAC

FIGURE 1584C

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TTAAAATGAAGAATTAACTTGTGTTACATCTATAAAGAGCAAAATAACACACTCCAGAACTTGGCAGTTGTAGCA
TTAGTTATACAGTTTTGGGTGTTCTTGCCACCCGTGGGATGCCTGCTTCTCACTACCACCTGTGTCTGGACACAT
GCTTATGTCTCATTTTCCTTTTGGCATGTGGAAAGCTGTCAATGCAGTGTAAGGCCAACGTGTGTGTGGCTTCTA
TGTGTTGAGATAATGTTTTGGTATCCTTGTCCGTTTCATTTATTTTTTAAGTGTACAAAAAATAACCTGTTAATT
GTTGAAGGCTACTTTTCTGTTCTTTTTTTTTTTTTTTCTATCCTGTACATTTAGTTGAACTGTGCGGAATTGTG
GTGTTGGTTTTGTTTACACAGCCAGATTTTTCCTTCTTTTTGTTTTGGGATGATCTTCCTTTGTTCTTTGAATGG
GCTCTTTTGCTTTTTCTCTTTTTTCTCATGTTTTCTTCCCTCCACCTCCACCCCTTTCTTTCTTTCTCTCTCTGA
TTGAGAGGCATTGAATTACGTTTTCAGTAGTACAGGCTTCTTGCCGATATGAAGGGAACTTTTCAGAAAGAGACC
TACTCTGGGTCATTTAATTTTGAATACAGTTTTCAATCGTTCAAGTTTTGGATGGTTTATATCTAATGTGTGTTT
CATTTTTTTGGAAAGCTATATTTTGTATTTAGGAAATGGTATACTATTTTGCTATTTGTACTGAGTGAGTACATT
GGCATAAATATAGAAATTTATATATATACATATATATAAACTATTCTTTTTTGCCACACATTTTTGTGGTAAATT
TGTGAGTTTGTCTGATGTTCTACCACAACGTGGCGTCTGATAACAGTGAGGGGGGGTGGGGTTTGTTATGTCTTT
ATTGAGTATTTAAGTATCTTTTGAAACAAATGACCTGTTCATCTGTGGCCATTCCATCAGGCAGTTAGTTCCTTG
ATGTCAGTAGTGGGCTAAAGGCAGCTTACTGTGTGTTTGCTGGAGCTTTCACTCAGCCAAGTGTTAGGGTCAGGA
AACCCATTGAGGCAATGGCGTCAAATGGTGTTTCACAAGAATGAGCCATTCAGTCTTTGCTCACTATATATTTAA
TATTTTATTATTGTTGTTATTGTTATTATTAATTGGCCTTTCTGTATTCTATGCCTTTTATTTATAAAGACACTA
AGAAAACCCATGTTTGTAATTTTAATAACATTTTTCCCATCTTGTAATATCCAGAGCTACTTTATAAATTCTCTG
AACCAAAAGTATTTTCCTCAGTGTATCTCTTCTCCCCCAGCCCCTATTGGGAAAAATTACCCAGTATAGTTCAGG
TTATGAGGAGGATCAGCCACACAATCCAGTGCTTCAGTTTGAAAATGTAAAATTCTAACCCTAAAGTAGGGTTGG
TTGAAATTTCAGACAAAGCAAACCCAGCAGGTATAAAAAGTAGTATAAATACAAATCTGTAAGTTATTTTTGAAT
TTTCTGAACTTTTTTCTAAGAGATTACATAGGAGACTAAAGAAATCTATCTGTTCAAGTTCTAATTAGGATGATT
GTTAATACTGCACTGTGGATGAAGTGGCGACTGGCTTGTGTGCTGACTTCTGTGGTTTAGCAAGAGGTTTATTGT
TATCAAATGCTAATTGGCAATGCCAAGTCACTGGGACCAATTTTCTGTTTTATAATATCTAAGTTTAGAACAGAA
TATATACCTGAACTGTAGTGGTTTGATCGGATGGAGACAGAAAACCCGATTTTTATTCTCATAAATTTTGTGGTT
ATTTATACAAGGGCTGTGCTATGCTACCATATTCTTGTTCAATAATAATAGGTTTGTTGTTTTTTTTACATTGTT
AAATGTTCCTTACCCCTAAAGGTCAATGTTAAGTACAACATTCTGAAAATACAATTTGGCTACAAAGAGTATTCA
TCTTCTTTGAAGCTCAGTGGTTGATATTTGTGCTAATAATGCAATTTCCTGATTACTGTTACAAGTTATAGCTAC
ATATGGGAGAGACTCAGGTGAGCCAGCAAAGGCCATAGAAACAACAATTTATTAAATGTATTTATGGCAGAAGGA
CCTAAATAAACTGTGAGCCACCTTTTCTTCTTTATATTGTTACATTTAAGTGTTCTCGTTTCAAGCAACTCACAT
TAATGCTTGGAGCTTATCTCTTTCTCTCTCTCTCTCTCTGTGTGTGTGTGTGTATGTGTGTGTGTGTGTGTGT
GTGTGTTTCCTTATTGTCATTCCATTATATATCCACACCAACATGGGTGACGATAATTCAAAGTCATATTTTGCC
TCTAAGCTTGATCATGTTACCTTTATGATTAAAGTATCATGTTATTTAGCCAATGCAAATCTGTTTTAAAACAAA
TAGTTTAAAAAAAGAACAAGTTTTTAAGGGCTTTATTATAGAAGAAGTATTAATGAAGGACTTTCCTTCCTCCCT
CCCTTTCCTCCCCTCCCTGCCTCCCTTCTTCCCTTCCATCTCCCCCTCCTCCCTGCCTTCTTGTTTCTCCTTCC
CTTATTCCTCCCTCCCTCCTTTCTCCCTTCCTTCCTTTCTTCCATTCATCCTTCCTTGCCTTTTATTTTTATTTT
TTGTAATATCACATGTGCTGTAGTTTGGAATTTTATTCTAGTGCATTTCTTGCTCATCAGAACCTCAGCTAATCT
ACCTAGGAAAAATAGTATCAAAGGAAATGAGAAAGTTGTATCTGAGTCCCTCCAGAACTAAGATAATTCTTTTTG
ACCATTTAAGCCTTTATAAATGCGTTTTGACCATTTAAGCCTTTATAAATGCTTGTTTTAGGAAAGTGAATCTGT
TAGATGCATCAACAAATAATGACCAGGACAAAACGATTTAATAATTAAAGTCTCAAATCACCATGGTTATACATT
TTCACCAGAAATAGTAATCTTACAATTTTTCATTTTTCTGATGAAGATTTCTGTTACAATATCTGTTTCCTAATA
GATTTTTTAAATTAATTAGCTTTCCTCTGCTTTATGACCATAGGTTTTATCCCTAACCGAGCAGCTGTCTTATA
TCTGCATGCCTTAGACTGTGTGGAGGGACTCCATGAAGAAAGACCATAGGTTAGAAAAATAACTCATAGTATATA
CCCTAGTAAGTGGGTTAGTAGAATCTCATAACATGTATTAAAAAGAGGTTTTCTTCTCTGCTTGTTTGTGTCACT
AGAGCAAAATTGTAGAGATAATGCTCATAATGCAGTAAATATCAGAATAATATCTACAATATCATTTGTGGATGG
TCCCAGGTCCCAGTGCTCTAGTTACTTTACTTCTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTCTCTCAGGCT
AGAGCAGTGTGCGATCTCAGCTCACTGCAGCCTCCACCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCA
AGTAGCCAGGATTACAGGCACCCTCCACTAGGCCCGGCTAATTTTTTTTGTATTTTTTTAGTAGAGATGGGGTTT
TGCCATGTTGGCCAGGCTGGTTTCGAACTCCTAACCTCCAGTGATCCACCTGCCTCGGCGTCCCAAAGTGCTAGG
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FIGURE 1584D

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ATTACAGGCATGAGCCACCACATCCGGTCTAATTACTTCTTTAATCCCCATTTATTTTTATGCCATTCTAGCCTC
ATTTATTAATAAAATTATGTTTTTACTTTCTCTTTCAGGAAATTTTTTAAATTAATATTTTATATCTAGATCAAA
TGCTATGGAAAAGTGCCTTTTTATCATTTATAATTTCATTTTTCACTATTTCCAAAAACACATAAACAAATAGTT
TCAGTAGGTCCCAGCTTTTACTTTTTCCATTTAAACCTTCTTTTCTCCATTTCTTCCCTTTGGCTTAAGAATAAA
AGAAAAGGTACATTGCTAGAATTGTTTCTTTGGGAGAGGGTAAAAGATTACAGAATTAGACTGTTCAGCCTTTAT
ATAAACTAAATTTGTCTTCATCTCAACCAGCTAATGGTAGGTCTTATCTGAATACTCATGAGAATTTTAGCATCT
GTGAAACTCCATGCACCAGATGTGTGTAAATTTCAGGAAGAAAGTGTTGAAAGCATTTTCTCTGATGTTAATTAG
ATGGAAATAAATCACTAAAACATAGTTTAGGTAAAGCCTGATTATGCCACTTTTTTTTAACTAGACAGGGCAAAG
TTGTTTATGTTAGTGTACTTCTTGTCTATCCTCAGTTAATTTACCTAGACAAAAAGTGTCAAAGGAAATGAGAAA
AAGGTTATATCTGACTCCCTCCAGACCTAAGATAATTCCTTTTGATCAGATACAGTCAGATGGAGTGCCTTGGTT
TTTGTTAATTTTGCCTCTATTCCAGCTCCTTACCACAGCGGTGGTGCTTAAAGAAAGGATCATCAGCAACAGGTC
AGGATAGTTCTACCTTTGGGATAGGGCTGCTTTCCCCGTGCTAGTATTTCTGTGACTGTTAGTGGCACTGAGGAC
TGCAAACTTTTATGCAATATTCTTAATACCCTATTGATATTATGCACTTTAATCATTCCAAAGAAGCCAAGAATG
CTGTATAGTGATGATTCCTTCCTAATGAATTCATCTTAACTATTTAGAATGTTATGTCCCTTTTCTTTTGGATAG
CCAACTTGGTATAAATGTTATATGGATTTTTCTAAAATGACTATATAGGACTTAAGACTTTGAAATGTAATTTAC
TTTATAAGGGGAAATAATTATGCTTTAGCACATCATTTTAGAAACGTCACATTTTAGAACATTCAGCTTGCTAACC
TACATGTTTGGGAATTCATTTAAAACCAAGTGTCTATATATTTTGTGCCATGTATATAAGAACATTACAATATAT
CTTTTTCTACATATGTAGTATGTGCAACCAGTGGTTCTCAGAGTATGGTTCTCAGCCCACCAGCTAGTATCAGTA
TCACCTGGGAACTAGTTAGAAATGTAAATTCTTTGGCCCCATCCCAGACATACTGAGTCAGAAACTCTGGAATAG
GGCCCCCGCAATCTGTTTTCACAAGCCCTCCAGGTGATTCTGATGCACACTTTAAAGTTTAGGAACCACTGGGCT
AAGACTCTGTTGAGATATAGAGTTTTTCTTCCACTCAGACTGATATAGTTATACATTGTTCTTCATGTAAATTCA
GCTTAACCTGGTTATCTATAATCTTTTATTGGCAAAAGTTAATTCTCAGTACTGCCTATAGAGATACAGTGTATT
TTATGTACATACACAATTAGTCTAATTCTTGATAATTCAGTTAATTTAGTTTGGCATTTTCCTACCACTTACTAA
AAGGTTTACATTAAATGACTGATTTAAATATATAGGTGCAATGTTCTATGTTTATTTTAATTGTTATGACATTTA
AGTAGCTAATATAATTGACCGGTGCTAAAGTCTCCTGTTTATCCATAAAATGGGTACATTATGGGCAGTGTAATA
CAAGCTTTCTTTTCATTGCCTAGTACTTTACCAGCAGACCACAGTTTTGCCTGGCTAGACCAACCCTCAGAACAA
AATCATCATTCCTTGTATTTATATTTGTATCTGAGATAGTAAACAAGATGGCTGGCCAGGTCAACATGGCACCTT
AACTTATTTTTTTAATAGGTAAAACTTCTTCAAAAGTAGCTTGCTTTGTATAAGAACTAAGCTATCAGTATAGAT
ATAGCTATCCTTGGAGCTTATGTTTCAGACAAGAATTATTTACTAAAATAAATAATAAACAAGATAATGCATTAT
ACATTTGGGCATTTCTCGTTTCTCAAGTGTATGCATCATGGTAAATATAAACTAACCACAAGATAGGTAGATTGA
TTCATTTCATTTTAATCTCCTTGTGTAATTCAGTACCTCCATAATTGTTCTAATCTTCTTCCCACTGTTTACAAA
TTACCAGTTAATTAACTCGTGAAAGAAAAATTCACATATCAGAATAAAAATAAATGTATACTCACTTTATAAAAA
TCACCACTGCTGTCTTTCCTTAATACTAGCAGTGGAAATGTAAGTGGCTTACTCTACAAATTTTGGTGCTGGCAA
ATACATAGGCAAACTGTTGGGAGCTGCTCTAGTTACATTCCTCCCTTCTTATTCCCTTTTTCTCTTCCTCACTTT
ATTGCATAACATATTCCTGTACCCAAAGCATTCTACCACAGTTCTATTTGACTCCCACTTGTAATAACTCCTTTA
AAAAATTCCATGTTTAACCATATGACCCTGCTTGCTTACTCATATTCTCCCTCCCTCTCCCCTTCCTTTCTCTCT
CTTCCAGAAGTCATTTGCCTGGTTTGAAATATTTTGTAGGGATTGCTTATTATATTATTTTAGCTGATGAACCTC
AGGACAACGTCTACACACACACACATACATACACGCACACAAAATCTCAGCTGTTGAAGAGTGGGCTTGGAATCA
GACTTCTGTGTCCAGTAAAAAACTCCTGCACTGAAGTCATTGTGACTTGAGTAGTTACAGACTGATTCCAGTGAA
CTTGATCTAATTTCTTTTGATCTAATGAATGTGTCTGCTTACCTTGTTTCCTTTTAATTGATAAGCTCCAAGTAG
TTGCTAATTTTTTGACAACTTTAAATGAGTTTCATTCACTTCTTTTACTTAATGTTTTAAGTATAGTACCAATAA
TTTCATTAACCTGTTCTCAAGTGGTTTAGCTACCATTCTGCCATTTTTAATTTTTATTTAATTTTATTTGCTTGA
GCACACTGATCAACCACTGAACTGCCTTCTTCCATTGTCCTGCAATGATATAAGGGTTACATTTTTGTGTATATG
GCTTTCATAGTTGGGATTTCAGAGCACTGATACCAGATATTTTCAGTTGTTCTCTGGGGGAATTTCATTTGCAT
CTATGTTTTTAGCTATCTGTGATAACTTGTTAAATATTAAAAAGATATTTTGCTTCTATTGGAACATTTGTATAC
TCGCAACTATATTTCTGTAAACAGCTGCAGTCAAAAATAAACACTGAAAGTTAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1585

MGGACSSFTTSSSPTIYSTSVTDSKAMQVESCSSAVGVSNRGVSEKQLTSNTVQQHPSTPKRHTVLYISPPPEDL
LDNSRMSCQDEGCGLESEQSCSMWMEDSPSNFSNMSTSSYNDNTEVPRKSRKRNPKQRPGVKRRDCEESNMDIFD
ADSAKAPHYVLSQLTTDNKGNSKAGNGTLENQKGTGVKKSPMLCGQYPVKSEGKELKIVVQPETQHRARYLTEGS
RGSVKDRTQQGFPTVKLEGHNEPVVLQVFVGNDSGRVKPHGFYQACRVTGRNTTPCKEVDIEGTTVIEVGLDPSN
NMTLAVDCVGILKLRNADVEARIGIAGSKKKSTRARLVFRVNIMRKDGSTLTLQTPSSPILCTQPAGVPEILKKS
LHSCSVKGEEEVFLIGKNFLKGTKVIFQENVSDENSWKSEAEIDMELFHQNHLIVKVPPYHDQHITLPVSVGIYV
VTNAGRSHDVQPFTYTPDPAAAGALNVNVKKEISSPARPCSFEEAMKAMKTTGCNLDKVNIIPNALMTPLIPSSM
IKSEDVTPMEVTAEKRSSTIFKTTKSVGSTQQTLENISNIAGNGSFSSPSSSHLPSENEKQQQIHAKAYNPETLT
TIQTQDISQPGTFPAVSASSQLPNSDALLQQATQFQTRETQSREILQSDGTVVNLSQLTEASQQQQQSPLQEQAQ
TLQQQISSNIFPSPNSVSQLQNTIQQLQAGSFTGSTASGSSGSVDLVQQVLEAQQQLSSVLFSAPDGNENVQEQL
SADIFQQVSQIQSGVSPGMFSSTEPTVHTRPDNLLPGRAESVHPQSENTLSNQQQQQQQQQQQVMESSAAMVMEMQ
QSICQAAAQIQSELFPSTASANGNLQQSPVYQQTSHMMSALSTNEDMQMQCELFSSPPAVSGNETSTTTTQQVAT
PGTTMFQTSSSGDGEETGTQAKQIQNSVFQTMVQMQHSGDNQPQVNLFSSTKSMMSVQNSGTQQQGNGLFQQGNE
MMSLQSGNFLQQSSHSQAQLFHPQNPIADAQNLSQETQGSLFHSPNPIVHSQTSTTSSEQMQPPMFHSQSTIAVL
QGSSVPQDQQSTNIFLSQSPMNNLQTNTVAQEAFFAAPNSISPLQSTSNSEQQAAFQQQAPISHIQTPMLSQEQA
QPPQQGLFQPQVALGSLPPNPMPQSQQGTMFQSQHSIVAMQSNSPSQEQQQQQQQQQQQQQQQQQQQSILFSNQNTM
ATMASPKQPPPNMIFNPNQNPMANQEQQNQSIFHQQSNMAPMNQEQQPMQFQSQSTVSSLQNPGPTQSESSQTPL
FHSSPQIQLVQGSPSSQEQQVTLFLSPASMSALQTSINQQDMQQSPLYSPQNNMPGIQGATSSPQPQATLFHNTA
GGTMNQLQNSPGSSQQTSGMFLFGIQNNCSQLLTSGPATLPDQLMAISQPGQPQNEGQPPVTTLLSQQMPENSPL
ASSINTNQNIEKIDLLVSLQNQGNNLTGSF

FIGURE 1586

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AGAAACGGCAGTGGCAGCAGCGTCCGGAGCAGCCGCAGCCTTCTGGAAGCTCCAGGCGGTCTTTCTGCCGAGCCT
CGGTCCCGGCCCCCATCCTCCCCGCCCCATCGGTTGTTGTCTGGGCGGATTTAAACAGTCAAGTAAAATCAAGCT
GGGTAATCATGGCAGAAGGTGGATTTGATCCCTGTGAATGTGTTTGCTCTCATGAACATGCAATGAGAAGACTGA
TCAATCTGTTACGGCAGTCCCAGTCCTACTGCACAGACACAGAGTGTCTTCAGGAATTACCGGGACCCTCTGGTG
ATAATGGCATCAGTGTTACAATGATCTTGGTAGCCTGGATGGTTATTGCATTGATCTTGTTCTTACTGAGACCTC
CTAATCTAAGAGGATCCAGCCTACCTGGAAAGCCAACCAGTCCTCATAATGGACAAGATCCACCAGCTCCTCCTG
TGGACTAACTTTGTGATATGGGAAGTGAAAATAGTTAACACCTTGCACGACCAAACGAACGAAGATGACCAGAGT
ACTCTTAACCCCATTAGAACTGTTTTTCCTTTTGTATCTGCAATATGGGATGGTATTGTTTTCATGAGCTTCTAG
AAATTTCACTTGCAAGTTTATTTTTGCTTCCTGTGTTACTGCCATTCCTATTTACAGTATATTTGAGTGAATGAT
TATATTTTTAAAAAGTTACATGGGGCTTTTTTGGTTGTCCTAAACTTACAAACATTCCACTCATTCTGTTTGTAA
CTGTGATTATAATTTTTGTGATAATTTCTGGCCTGATTGAAGGAAATTTGAGAGGTCTGCATTTATATATTTTAA
ATAGATTTGATAGGTTTTTAAATTGCTTTTTTTCATAAGGTATTTATAAAGTTATTTGGGGTTGTCTGGGATTGT
GTGAAAGAAAATTAGAACCACGCTGTATTTACATTTACCTTGGTAGTTTATTTGTGGATGGCAGTTTTCTGTAGT
TTTGGGGACTGTGGTAGCTCTTGGATTGTTTTGCAAATTACAGCTGAAATCTGTGTCATGGATTAAACTGGCTTA
TGTGGCTAGAATAGGAAGAGAGAAAAAATGAAATGGTTGTTTACTAATTTTATACTCCCATTAAAAATCTCTAAT
GTTAAGAAAACCTTAAATAAACATGATTGATCAATATGGCAGATGATTTACAGTCCATTATATGACATTTGTAAG
CCACTCAACACTAGCCTTACAAGGTTCATGAAAGGAGGAAAACATTAATTCTTTCTGCCTTTGCTGATATAATCC
ACATAGTAATAATTTAAGCTATAATTTATTTTTAAAATGAGTGCCTCTTGGGAAGCTTCTTTTCTGTTCTAACAG
TTCCCTGTTAAAATGAAAATCTTAGGCCAGTGCAGTGGCTCACACCTGTAATCTCAGCACTTTGGGAGGCTGAGG
TGGGTGGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATA
CAGAAAAATTAGCCAGGGTTGGTGCATGTGCCTGTAATCCCAGCTACTCAGGAGGCCAAAGCAGGAGAATTGCTT
GAACCCGGGAGGTGGAGGTTGCAGTGAACCAAGATCGCACCACTGCATTCCAGCCTAAGCAATAGAGCGAGACTC
CCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1587

MAEGGFDPCECVCSHEHAMRRLINLLRQSQSYCTDTECLQELPGPSGDNGISVTMILVAWMVIALILFLLRPPNL
RGSSLPGKPTSPHNGQDPPAPPVD

1747/2682
FIGURE 1588A

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CAGCCCGGCCTTCGTCGCCGCCGCCTCCCTGCTGCTCCTCCTCCTTTCCCCAGCCCGCCGCGGCCATGGCGGACA
GCGCCAGCGAGAGCGACACGGACGGGGCGGGGGGCAACAGCAGCAGCTCGGCCGCCATGCAGTCGTCCTGCTCGT
CGACCTCGNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGGCGGCGGCGGTGGGAAGTCGGGGGGGCATTGTCATCTCGCCGT
TCCGCCTGGAGGAGCTCACCAACCGCCTGGCCTCGCTGCAGCAAGAGAACAAGGTGCTGAAGATAGAGCTGGAGA
CCTACAAACTGAAGTGCAAGGCACTGCAGGAGGAGAACCGCGACCTGCGCAAAGCCAGCGTGACCATCCAAGCCA
GGGCTGAGCAGGAAGAAGAATTCATTAGTAACACTTTATTCAAGAAAATTCAGGCTTTGCAGAAGGAGAAAGAAA
CCCTTGCTGTAAATTATGAGAAGAAGAAGAATTCCTCACTAATGAGCTCTCCAGAAAATTGATGCAGTTGCAGC
ATGAGAAAGCCGAACTAGAACAGCATCTTGAACAAGAGCAGGAATTTCAGGTCAACAAACTGATGAAGAAAATTA
AAAAACTGGAGAATGACACCATTTCTAAGCAACTTACATTAGAACAGTTGAGACGGGAGAAGATTGACCTTGAAA
ATACATTGGAACAAGAACAAGAAGCACTAGTTAATCGCCTCTGGAAAAGGATGGATAAGCTTGAAGCTGAAAAGC
GAATCCTGCAGGAAAAATTAGACCAGCCCGTCTCTGCTCCACCATCGCCTAGAGATATCTCCATGGAGATTGATT
CTCCAGAAAATATGATGCGTCACATCAGGTTTTTAAAGAATGAAGTGGAACGGCTGAAGAAGCAACTGAGAGCTG
CTCAGTTACAGCATTCAGAGAAAATGGCACAGTATCTGGAGGAGGAACGTCACATGAGAGAAGAGAACTTGAGGC
TCCAGAGGAAGCTGCAGAGGGAGATGGAGAGAAGAGAAGCCCTCTGTCGACAGCTCTCCGAGAGTGAGTCCAGCT
TAGAAATGGACGACGAAAGGTATTTTAATGAGATGTCTGCACAAGGATTAAGACCTCGCACTGTGTCCAGCCCGA
TCCCTTACACACCTTCTCCGAGTTCAAGCAGGCCTATATCACCTGGTCTATCATATGCAAGTCACACGGTTGGTT
TCACGCCACCAACTTCACTGACTAGAGCTGGAATGTCTTATTACAATTCCCCGGGTCTTCACGTGCAGCACATGG
GAACATCCCATGGTATCACAAGGCCTTCACCACGGAGAAGCAACAGTCCTGACAAATTCAAACGGCCCACGCCGC
CTCCATCTCCCAACACACAGACCCCAGTCCAGCCACCTCCACCTCCACCTCCGCCACCCATGCAGCCCACGGTCC
CCTCAGCAGCCACCTCGCAGCCTACTCCTTCGCAACATTCGGCGCACACCTCCTCCCAGCCT**TAA**TGCATGAGCT
TAGTCTGAATTTCAAGTTGGGACTCATCCAATGGAGCCGTCTACTCAACGCCAAAGGCTTCCTTCTCTGGCATAT
TTGGATATGACTTATTTGCACTGAGGTTATCTAGGCTTCACTATCCATTGTGTTGTAAATGTTTGTCAGAAATGC
AGCCAGTGTTGTGGGTCTACAACACTAACCAGACGACTTTTTCCATCAGTGTTTTACTTGAATCTTCATGTACGT
CCATTCCCTGGCTGGAACCTTCGCTGTTTGGTATTTGGTATTTCAGCAGCAGTGTGCAATTTTTGCTTGGCCCAG
AGCTTCATTCTCCTGGCTTTTAGGTTTGTAAAAGAAAAAGGGATATCTTTTTTATATTTTTTTCCATGAATCTGC
AGAAAATTACTGAGCTGTTGTTACCCTCCTCTCATTATAATAGTGTTTACCAAACATACCAATAATTCAGCACTA
CAATTCAGACCTTTGAAAATCTGGCTTTCAGTGTAGAACAGAAAGTTAGATGAATCAGTGCCCAAGACATATTTT
CTGTTAACAGAACTTTCTACAGATACATTTTTTACAGGTTATTTTCATTGTGTTATTGACATCCATGTCTCTCG
TAAAACAGATGGCCCAAAGTAATGAATCATGTGGCTGTACCTTCTCCACATAAATGGGATGGATAATTATCGTAT
ATTAAGATGTGATTCTCTTTTTTATCCTTAATGTTAATCTACTTAACCTGGCCCCCTCTAACATGAGTCGATAAA
TGTTGTCCTACTCACCGGTGGTTTCAATGGCTAATTAGAATGTGTTATTTGATTTCTGCTGCAGAAGGCAGTGTG
ATTGTAACAAAAACAATGCGGCTTCCCCCTTTCGTACTTCATTTGTGTTCTCTTAAAATAGAGTTTGAACAAATA
TTTTAAAGGTGCAAAATACCATTAGAAAATACTATTTGAAATGGACATTATCGCATTATCTTGGCATAATGGCCA
GAAAATATTGTATTGCTTGGCAGAAAAGAAAATAAGGTCTAAAGGAAAGTAGCACATTAGCATTGATGGCTGTTC
ATTTCACCCAGTATAAGCAAGTGCAGTGTACAAAGAAGTATATTCTGAATACATTATTTCCATTCATTTAGCACA
AATAAATCATTTGGTTTCACTTTGCAGTGGAACACTGAGTCACTCTTTTCTTAACACGTGCAACATCTTAATTTT
TGTTTTTCAGCAGTTGCTGTTTTGTACTTTGGTAGTGAAGTGATTTTTACCACCTGTGTTTGCATATTTATATAT
GCTGTGGATGAAAATAACTTACTAGAGAATGTATATTTTATGACAAGAATGTGTATCTGTTGGATATAATCAGAG
AACTGAAAAGTAATTTATCAGTAATTTTTAAGAGTCCATGTTTTGTGACAACCATCTCTAATAGCCAACTCTTTA
TTAAACACACTCCTAAAAATAAGGAACCATGACATTGTAGATATTTAATATTGTACAGTATAGAAACCTCCATTT
TTGCCTTCGAATGCATATTTAAGAGTTAACAGAATGAAAAAAAAAAGTCTTGTTGGATAATAGTGTTTGACTAGC
GTTTTAAGAACTTGAGAGTAAAAGCAACAATAAGATTTTTTCACCTCTTCCTGCTTCCACCCCCAAACTGAGAAC
ATCACTCAATTGTTTGGAAGAAACTGTAGGTCTATATAAATTTTATTTATAATGTATGTGTAATATACATAATCA
TAATACAGTTCTCAGATGCAGGGAAGAAGTTTGGCATTTAATCATTGAGGCTTTAGGTTTTTGATGTGATCAGAC
TGGGCCATGTCAAACCCGGAATTTTCACCAACAGTTCACTCACCCTCCTGGTACATTGCCATTCCAAGGAATTCT
GAGAGTAGGCAAACAAATTTTGCCTTCATGGTACAGTTCTCAGTTTTTCTTATAGGAGAAATATGGTATATGTTT
ATAAGAATCTTTTATGAGATTATAGATTTCAATGCTGTGGATAGTGTCTTGCACCCAAACAAGAAAGTCCATAAT
GGAATGATCTTCCCTCAGCTTCCTATCGATTTAGTTACCTCTTGAAAGCACAAAAATTAAAACATTGCCATATGT
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FIGURE 1588B

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TGAATTTTTAAAAAGCACTTGGAGTGAGCGAACATTTCCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTC
AGACATCTGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAAACACAGCTCCTTCAAACAGCACT
TTTTCCACATAAATCTAGTTGCCTCTCCCTGTGGACATTCAGAACTGATAGAACAAACACTACTCTTTTGAATTT
GATGGTTCGTGTCCTTTAAAGTGTTTGAGGACCTATGCAGAGCCTGTAACACTTGGGTAGTACCTGCTAGGACAA
TTTCTTGGCAATTGTCTTACTACTAGGGATCAGTAAGATTTAGATTCTGAGCCCATAATGGCAACAGCCCCCTCA
CCTATGGGAAGCTGACTTCCCTCAGTCGGGCACTTCTCATGGGGGCTGAACATGGTTCCTGCCATTCTGTTACCC
ACTCTCCCAGGTGAGCCCTGGATTGGCTCCCAGAAGGCCTTTGTAAAATCAGTAGCCATCCTGCAGGCAGGTGGG
AGCAACAGGGGCTTCAGTAGCTTCATTTTCCTGTCTTGCAGACAGAGACCCTTGGCTACCACTGTGCTGCTAATA
GGATAAGTACTCTGTTGCCAGATTACCATGCCTTTTATACAAAACCAAATTAACTTACCTAATACCTGACACCTC
TTTGGGCTCTGAACTGCTTTCTCTCATCAAGCATGCTAGCACTCTAGACAGAATTCTAGAAATTTGGCAGACAGT
GGAAGCCTTTAATTGAACTTACTCCTTCGTTGACTGAAAGGAGTTTTAAATTCTGAGCTCCTGAGATACTGACTA
GCAACCATGGAATGAATGTGTGACCAGAAAGTGGCTTTGACACCAAGTGCTACTGTCCCTTTGTAATTGGCTTCT
AACAGATTCAACCAGAAATAATTGATAATGTGAATTTTTGTTAATTGTTCACTTGTAGGAAAATAGAACATGTAT
CACCCTTTGTTAGGTAGACATGAACTTTTCCTGCACAAAGCCTTGCTTTTAGAGAATGCCCAATAAGGCAAGAAA
AAGCATAGTAACTTGTGCTTTGAGAGCTCAATATTTGTATCTTATCAGTACAGAAGAAATATTTCTGTGTAACTT
GATCTTCTGTCTAGTACTTGTCTTATAGGTAACCAACACTGAAAACTTTGTAGTGATGACTACCAAAGAAATACA
TAGTAAAACAACCTTTTATTTCCAAATTGTTAAAGAGCCAGCCATTGATGCTGCTACATGAGTTCCATGCTCAAG
AGCCATTGTAAGAGATTAAGGGGTTTCTAGGTTTTTGGTGATTTTTTGTTTGTTCTTTTTCTTTGTTTTTTAGGG
TTTTTTTTTCTTCTTTAATTTTTTGATTAAAACATACACACAGCTGTTAGCATAAAGTCGTGGGGGGGCATTTTCT
GGAATGCTCAGCAGTTCTGATTAACTGCCAAGCCCAGGTTGCCTCTCATGAGGCAACTGAAAAAAATCCTGTGTCT
TGATAGCATGGGTGCTGTGTGTGTGCATGTGTGTGTCTGCATTCATGCCTTAACTCGGGTTACTGCACAACTTTA
GTTCTTGACTTAGTCTGCACCGTCATCTAGATTGTATTGTACATCTCGGTCTGAACTTCATCCTGGCAAAAACAA
AGTTGCAGGCACAACAGTTTAAGAATGCATTCCTCCAGAAGAGTATCTGGTCAGGTTGACCCTGAGCCTTCTTTG
GACTTGATTTGGAACTTAGCCTGGAAAGCGAAAGTGGACTGTCCAACAGAAAGATGTCAACAAGGAAAAGAGGAG
AGCCAAGCGCTAGCATGCCTTTTGCCTCTGCATATCTGTGCACACTGTATGTTGTTCATGATAGCTTGTCTACAA
CTTGACTAGGTTGGAGTTCTGGTAATAGTGGCAATCTTGACATTCTTGGTCAGAGTTTAGAGAGATGTAAGACTT
TCAATTAATGTCTTATTTACTCCTTTATGTTGATTAGTCTTTGATACATGTGCTGAATCAGAAACCTAAATAAAG
ATAATTTTTTAAAAATGTAAAAA
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FIGURE 1589

ARPSSPPPPCCSSSFPQPAAAMADSASESDTDGAGGNSSSSAAMQSSCSSTSXXXXXXXXXGGGGGKSGGIVISPF
RLEELTNRLASLQQENKVLKIELETYKLKCKALQEENRDLRKASVTIQARAEQEEEFISNTLFKKIQALQKEKET
LAVNYEKEEEFLTNELSRKLMQLQHEKAELEQHLEQEQEFQVNKLMKKIKKLENDTISKQLTLEQLRREKIDLEN
TLEQEQEALVNRLWKRMDKLEAEKRILQEKLDQPVSAPPSPRDISMEIDSPENMMRHIRFLKNEVERLKKQLRAA
QLQHSEKMAQYLEEERHMREENLRLQRKLQREMERREALCRQLSESESSLEMDDERYFNEMSAQGLRPRTVSSPI
PYTPSPSSSRPISPGLSYASHTVGFTPPTSLTRAGMSYYNSPGLHVQHMGTSHGITRPSPRRSNSPDKFKRPTPP
PSPNTQTPVQPPPPPPPPMQPTVPSAATSQPTPSQHSAHTSSQP

FIGURE 1590

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ATAAAATTCTGCTTGTTAAGAACAAGTTTGGCTCTGGTAACTGACCTTCAAAGCTAAAATATAAAACTATTTGGG
AAGTATGAAACGATGTCTCGTGATCTGGTGTACCCTTATCCCTGTGACGTTTGGCCTCTGACAATACTGGTATAA
TTGTAAATAATGTCAAACTCCGTTTTCTAGCAAGTATTAAGGGAGCTGTGTCTGAAATGGCACTGTCTTGTCAGT
CATTTCTGTTTACCTTTTTCTTCTGCCCAGAGTGTATTTGTGAAGAGTCTCTTATATTATGTTTTGTGGAAATCA
GCACACAACCACAATGACATTTAAGCACAGGATCATTATTAGTCTATGTTTTTAATAAACATATCAATTAAGAAA
AAAAAAAAAAAAAAAAAA
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FIGURE 1591

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GGCACGAGGCCGCCATGGCCTCTCTACTCGCCAAGGACGCCTACCTGCAGAGCCTGGCCAAGAAGATCTGCTCCC
ATTCGGCCCCGGAACAGCAGGCGCGCACGCGGGCTGGCAAAACTCAAGGCTCAGAAACTGCAGGGCCCCCAAAAA
AGAAAAGGAAGAAAACACAAAAGAAATTCCGGAAGCGAGAAGAGAAGGCTGCTGAGCACAAGGCCAAGTCCTTGG
GGGAGAAATCTCCAGCAGCCTCTGGGGCCAGGAGGCCTGAGGCAGCCAAAGAGGAAGCAGCTTGGGCTTCCAGCT
CAGCAGGGAACCCTGCAGATGGCCTGGCCACTGAGCCTGAGTCTGTCTTTGCTCTGGATGTTCTGCGACAGCGAC
TGCATGAGAAGATCCAGGAGGCCCGGGGCCAGGGCAGTGCCAAGGAGCTGTCCCCTGCCGCCTTGGAGAAAAGGC
GGCGGAGAAAGCAGGAACGGGACCGGAAGAAGAGGAAGCGAAAGGAGCTGCGGGCGAAAGAGAAGGCCAGGAAGG
CTGAGGAGGCCACGGAGGCCCAGGAGGTGGTGGAGGCAACCCCAGAGGGGGCCTGCACGGAGCCGCGGGAGCCGC
CCGGGCTGATCTTCAATAAGGTGGAGGTGAGCGAAGACGAGCCGGCCAGCAAGGCGCAGCGCAGAAAAGAGAAGA
GGCAGAGGGTGAAGGGGAACCTCACGCCGCTGACCGGGAGGAACTACCGGCAGCTGCTGGAGCGCCTGCAGGCAC
GGCAGAGCCGGCTGGACGAGCTGCGCGGCCAGGATGAGGGGAAGGCGCAGGAGCTGGAGGCGAAGATGAAGTGGA
CCAACCTCCTCTACAAGGCGGAGGGCGTGAAGATCCGTGACGACGAACGCCTGCTGCAGGAGGCCCTGAAGCGCA
AGGAGAAGCGCAGGGCGCAGCGGCAGCGCCGGTGGGAGAAGCGCACGGCCGGCGTGGTGGAGAAGATGCAGCAGC
GCCAGGACCGGCGGCGGCAGAACCTGCGCAGGAAGAAGGCGGCCCGCGCCGAGCGCCGCCTGCTCAGAGCCCGCA
AGAAGGGCCGCATCCTGCCGCAGGACCTGGAGCGCGCAGGCCTGGTCTGAGTCTTTCCCACCTGGGGCCGCCGTC
TTCCGTCCTAGGAGACTCCAGGACACCCTCTGAGTCCTTGACGCTGGCTCTGTCCCAGGATCTCCACAGACCTCG
GCCTCTCCATGTGAGGGGGACACAGTGGTGCTCTGCTGAGTTGTGAGGGCCCAGATCACAGATCCCATGTGAGAA
AGAGAGAGTTTCAGCGTCATCCTTGAACGCAGGATCCGGGACCTTCAGACCCAGGGAAAGGGTGAGGGAGACTGG
GGCCTGGTCTGCTTTCCCGGGCCTGAAAGCTTCCCCGAGGTTTGCAGGGTCAGGGAGGAGGAACGGTGGGGGTGG
GCAGTCACTGCCTGTTCCCCACTGCCTGTGTTCGCAGGAGCCACGGGACAGAAGACGGTGGCCTCTGCTGCCGGG
CCACGTTAGTCCGCAGCTCACCCGAACAGAGGACAACCCTGAGGTGTGGCATATGGGCACCTGGCACTGGGAGTC
GGGGGAGCACGTCCAGGCGTGGTGCATCCTGGGGCAGAACGCCATGGCTCCTCCCCGCTCTCTTGGCTTCTGCCT
GTTGGGGTCTCATTCCTTTCTGTTCCCCAGTGCCCCGGGGCGGCATTTTACTGCTCAGAATTTGGAGGGAGGGAG
CAGTACCTTCCCGGAGTCCACGCATGTGAGTTGGGTCAAGTGCATTGGACCTAGGGAAAGAGAAAGAAAGAATAA
AAGCTGGAGAGAGAGTGAAGTGAATGCAAGATACAAAGTGGGATGGAAGAATTAAATCCAGAGTTCCAGGCAATC
AAAATGAGTGCAGGTTGAAAGAAAACAGGTGAATTTTAGTGGCATATGGATGATAAAGCTGTAAATAAAATTCTT
TTGATGAAACTCTCCGGTTATGAGACAAAGACTGTAACTGAACAGGAGCTGGTGTGACTGTTACCAGACAGAGGC
AACTGATGAAAAAGCCCTGTGAAAGATAGGATGTGAGGTGAGCATGAGCTTGAGCTGAGAGACAGACACAACAGT
ATCTGAAAAGAATACATACTCTTTCCATGCATATATGGAACATGGATGGAAACTGACCACCTACTTTGTCCAGAA
AAGAAGTCTTAAGATATTTCAAGGAATCAGTGTCGTTATCTGACCGTATCCCAATGTCATTAAAAAAAATTTGAG
CTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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1752/2682
FIGURE 1592

MASLLAKDAYLQSLAKKICSHSAPEQQARTRAGKTQGSETAGPPKKKRKKTQKKFRKREEKAAEHKAKSLGEKSP
AASGARRPEAAKEEAAWASSSAGNPADGLATEPESVFALDVLRQRLHEKIQEARGQGSAKELSPAALEKRRRRKQ
ERDRKKRKRKELRAKEKARKAEEATEAQEVVEATPEGACTEPREPPGLIFNKVEVSEDEPASKAQRRKEKRQRVK
GNLTPLTGRNYRQLLERLQARQSRLDELRGQDEGKAQELEAKMKWTNLLYKAEGVKIRDDERLLQEALKRKEKRR
AQRQRRWEKRTAGVVEKMQQRQDRRRQNLRRKKAARAERRLLRARKKGRILPQDLERAGLV

FIGURE 1593

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GGCACGAGGGGATGGCAGAGGAGGTGAGGAGGGAGGAAGCGTCCGGAGTGGGGCGGGCCCGGACTCCGACCCCCG
GGGCGCTTCGAGCCCCCCAGCTGGTCACCGAGGCACCGCCGCTTCACCCAGGCCAGTAGCCGCCCCCCTCGCGCA
CCCCGGCCCCGCCTCACACGCGCGCCCGAGCGAGCCCCGGGCTCCCCTCGGGCCCAGCGTGGCGCAGGGGTCAGT
GGTTCTCTCGGGTCTCGGGACAGGTGAGCACCCTGATGAAGGCCACGGTCCTGATGCGGCAGCCTGGGCGGGTGC
AGGAGATCGTGGGCGCCCTCCGCAAGGGCGGCGGAGACCGGTTACAGGTGATTTCTGATTTTGACATGACCTTGA
GCAGGTTTGCATATAATGGAAAGCGATGCCCTTCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGG
AGTGTCGGAAAGAGCTCACAGCGCTCCTTCACCACTATTACCCAATTGAGATCGACCCACACCGGACCGTCAAGG
AGAAGCTACCTCATATGGTGGAATGGTGGACCAAAGCGCACAATCTCCTATGTCAGCAGAAGATTCAGAAGTTTC
AGATAGCCCAGGTGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACC
ATAACAACATTCCCCTTTTCATCTTTTCTGCGGGCATTGGTGATATCCTGGAAGAAATTATCCGACAGATGAAAG
TGTTCCACCCCAACATCCACATCGTGTCTAACTACATGGATTTTAATGAAGATGGTTTTCTCCAGGGATTTAAGG
GCCAGCTGATACACACATACAACAAGAACAGCTCTGTGTGTGAGAACTGTGGTTACTTCCAGCAACTTGAGGGCA
AAACCAATGTCATCCTGCTGGGAGACTCTATCGGGGACCTCACCATGGCCGATGGGGTTCCTGGTGTGCAGAACA
TTCTCAAAATTGGCTTCCTGAATGACAAGGTGGAGGAGCGGCGGGAGCGCTACATGGACTCCTATGACATCGTGC
TGGAGAAGGACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATCCTGTGCCAGGGGGTCCAGCTGGAGA
TGCAAGGCCCCTGAAGGCGCAGGCTCCAGCCCGGCCTGCAGGCCGTGGTGAGGAGGGGCGCCTCCCCAGAGTCTG
CTCCCCCGTGAACACAGAGCAGAGGCCAGGGTGGCCAGCAGTGGCTGGGTCCTTCCGCGCCCCTCCGTCCTCCTT
TCCCTGAGCACCTTCATCACCAGAGGCTTGAAGGAACCCCGCCATGTGGCAGGGCACAGGCACTGTTCCTGGTGA
ACCTTGGACCACAGCATGTCAGTGCTCTAGGGATTGTCTACTCCAGGGATTTTCTTCAAAATTTTTAAACATGGG
AAGTTCAAACAAATATAATGTGTGAAACAGAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1594

MTLSRFAYNGKRCPSSYNILDNSKIISEECRKELTALLHHYYPIEIDPHRTVKEKLPHMVEWWTKAHNLLCQQKI
QKFQIAQVVRESNAMLREGYKTFFNTLYHNNIPLFIFSAGIGDILEEIIRQMKVFHPNIHIVSNYMDFNEDGFLQ
GFKGQLIHTYNKNSSVCENCGYFQQLEGKTNVILLGDSIGDLTMADGVPGVQNILKIGFLNDKVEERRERYMDSY
DIVLEKDETLDVVNGLLQHILCQGVQLEMQGP

1755/2682
FIGURE 1595

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CTCCGTCTCAAAAAAGATGAAAATAAAATAAAATATATATTTACAGGCCTACAACTTTTGCCTCAGACTGTTCCC
CTTTTCTAAGGGTATTCAAGTTTTCACCTTTTAAGCTTCATATCCTCAGTGCTTGTAGAATGATGAGCTTAGAGG
.TACCAGGTCATTGCAGTTGTTTGCTTAAAGACTTATTGAAATGGTTACTGGCGTAAATACTTGGCCAACTCAACT
TTATTGCCCCTGATCTTTTCCATTTTTGTTTCCACCTTAACCTATAGCAGCTCCTCCAAATGAGGAATGCTGTAA
GTAAGACTCATCAAACAGATTTTAACCATTTTATTATCCTGTGTGTCCTTACATTGCTTCTGTGAGATGTTTTTT
TCTTATCTGAGATGAACTTTCAGGAGCCTATTTGAACTCCAGACTGGTGTTCTGGGGCAAAGAGCTATTAGCCAA
ACTGATTCTATGCAGGTGAAGGATGCACTAAAGTTCTCACTTTAGTGAGAACTTTTCTAGCTATTCCAATACAGA
GTTCTTTCTTATAGGGCTATTGATATTGACACCAAATGGAGTGGCTTCTCAGCCTCTTAATGTCTTAAGTAAGTG
CTTAATTTGGAATAGAGAAACCAGTATATTTTAAAAAAAGAAAAATATTCTTTGTAGCAACTGTAAATTCTCCCA
TTATAACAGTGAACAGAGCTCCAGGTAATAACGCATAGGCATGTCAGGTTGCATCTGTATATTTGACTACATTAG
TATTAGTGACATCAGGTGGATATAAAAGAAAACCCTTGGAAAGAGAACTGCCTTAGCCATGATTTCGTTAGTAGA
CCTATTTATGATTCAATTGCAATTTTCAGATAGGATGTGAACATGGAATTTCATTGAAAATAGTTTAATTTTTTA
TATAAAAGGTTTTGTATATAATGTGTGTCAGTGACTATTTTCAAAATCATTTTCATCAAGACACCTTTTTTCTAA
AATAGGCATTGCATACACATATGCACACGTATGTGCATGTGCCACACATTTTTTGTATAATGTTGGGTTTGATTA
TAAAAGTGTTGTCAAATGTTTTATTTATCTGCATATAGCAGTGGTTGGCTTTTTTGAATTGAAATTTTTGCGCAT
TGATGCATTGAAATAAGGAAAATTATTTATCTCTGAGCACTAAACTTATTTTTGCATATTTCTGTAATATTGCAG
TCCCCAGATCCAGAACATGGGAAGTTAGGGAAAATGTGTGATTTTGTGTTTTGAATTACTGTCAGAATTACATAC
ACAATTACAACAAACTTTTTTTAAAAGACATTTCATTGTACTGCAAAAATCTGAATATTTATATTTCTTGTTTTT
TTCTTTATATGTTTTGCATTTTAATATGTTGAGCCACTGGAAATTTGTAACAGATTAATTTGTTATAGGAGTTTA
A**ATG**TGTTGTCATTGTCTCCATTGTCTTTGTCCAGAGCCTATTATTATGGAAACAATAAAATTTATTGTGTCAGT
TGCTTTGATTCTT
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1756/2682
FIGURE 1596

MCCHCLHCLCPEPIIMETIKFIVSVALI

FIGURE 1597

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TCTCCACGTGGGTACCGGCGCTCTCGGCGCCCGTAGCCACCCGCCCGCCGGAAGCCGACATCTCGAGTTCTGGCA
GAAGCAATTTGCGCGGCGAGGAGCGGAGCGGCAGGAACCCAATAAGCTGCTTCGCCTCGGAGCTGAAGCCCGTAC
TCAAGATGGCGGCTCCGGGCGGGCGTGGCCAGTGACTAGAAGGCGAGGCGCCGCGGGACCATGGCGGCGGCGGCG
GACGAGCGGAGTCCAGAGGACGGAGAAGACGAGGAAGAGGAGGAGCAGTTGGTTCTGGTGGAATTATCAGGAATT
ATTGATTCAGACTTCCTCTCAAAATGTGAAAATAAATGCAAGGTTTTGGGCATTGACACTGAGAGGCCCATTCTG
CAAGTGGACAGCTGTGTCTTTGCTGGGGAGTATGAAGACACTCTAGGGACCTGTGTTATATTTGAAGAAAATGTT
GAACATGCTGATACAGAAGGCAATAATAAAACAGTGCTAAAATATAAATGCCATACAATGAAGAAGCTCAGCATG
ACAAGAACTCTCCTGACAGAGAAGAAGGAAGGAGAAGAAACATAGGTGGGGTGGAATGGCTGCAAATAAAGGAT
AATGATTTCTCCTATCGACCCAACATGATTTGTAACTTTCTACATGAAAATGAAGACGAAGAAGTGGTAGCTTCA
GCCCCAGATAAATCTTTGGAATTGGAAGAGGAAGAGATTCAAATGAACGACAGTTCAAACCTGAGTTGTGAACAG
GAGAAACCAATGCACTTGGAAATAGAAGATTCTGGTCCTCTTATTGATATACCTTCTGAGACAGAAGGTTCTGTT
TTTATGGAAACTCAAATGCTGCCTTAGAAATCACTCTCCTAGATGAAATGTTTCTCATAATAACTTGTCAAGAAC
TTTTTAGAGTTGTTACATAAAAATAATTGCTGCTGTAGCTTGTCAAAAAAAAAAAAAAAAAAAA
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1758/2682
FIGURE 1598

MAAAADERSPEDGEDEEEEEQLVLVELSGIIDSDFLSKCENKCKVLGIDTERPILQVDSCVFAGEYEDTLGTCVI
FEENVEHADTEGNNKTVLKYKCHTMKKLSMTRTLLTEKKEGEENIGGVEWLQIKDNDFSYRPNMICNFLHENEDE
EVVASAPDKSLELEEEEIQMNDSSNLSCEQEKPMHLEIEDSGPLIDIPSETEGSVFMETQMLP

FIGURE 1599A

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GCGAGCCTCTCTCGCGCACAAAGTTGTGGAGTCGTTTTTCCTCGGAGCAGGGAAGCGGGCAGCAGCAGCCGGCCG
CGGGCTTTCTCCCGCCGAGGGGCGAGGAGGAGCCTCTGGCTCCAGAAGCCGATTGGGGAATCACGGGGAGCGGCG
CCCCCCTTCTTTTGGGTCATTTCTGCAAACGGAAAACTCTGTAGCGTTTGGCAAAGTTGGTGCCTGCGCGCCCCT
TCCAGGTTTGCGCTTTGACTGTTTTGTTTTTGGCGGAACTACCAGGCAGGAAGATTGCACAAGTAAGGGGCGTTT
TCAGTCGGGTGTCAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAAGATTTCGGTTCGTGTCTGCTTCTCCAAGCTTT
ATTTTTTTTTAAAATACATCGCACCACCAAACTCACACTCGCACACACCCCCGCGGTTACTCCGTGTCAAACTC
CTAGAGGAGCCCTTGGCCAGCTCGGGGTGCGGCGGTGGCGACCGGCAGGCGAGGAGGCCCGCGGGCAGCAGGTAT
TGATGTCAAGCTGAACCATCGTAGGAAGTTGAAAGCCTTAGAAAGAGGACTTGGTAAAGTTTTTGGATTATCTTG
AAACTCTGGCAAAATGGCCAAGTATGGAGAACATGAAGCCAGTCCTGACAATGGGCAGAACGAATTCAGTGATAT
CATTAAGTCCAGATCTGATGAACACAATGACGTACAGAAGAAAACCTTTACCAAATGGATAAATGCTCGATTTTC
AAAGAGTGGGAAACCACCCATCAATGATATGTTCACAGACCTCAAAGATGGAAGGAAGCTATTGGATCTTCTAGA
AGGCCTCACAGGAACATCACTGCCAAAGGAACGTGGTTCCACAAGGGTACATGCCTTAAATAACGTCAACAGAGT
GCTGCAGGTTTTACATCAGAACAATGTGGAATTAGTGAATATAGGGGGAACTGACATTGTGGATGGAAATCACAA
ACTGACTTTGGGGTTACTTTGGAGCATCATTTTGCACTGGCAGGTGAAAGATGTCATGAAGGATGTCATGTCGGA
CCTGCAGCAGACGAACAGTGAGAAGATCCTGCTCAGCTGGGTGCGTCAGACCACCAGGCCCTACAGCCAAGTCAA
CGTCCTCAACTTCACCACCAGCTGGACAGATGGACTCGCCTTTAATGCTGTCCTCCACCGACATAAACCTGATCT
CTTCAGCTGGGATAAAGTTGTCAAAATGTCACCAATTGAGAGACTTGAACATGCCTTCAGCAAGGCTCAAACTTA
TTTGGGAATTGAAAAGCTGTTAGATCCTGAAGATGTTGCCGTTCAGCTTCCTGACAAGAAATCCATAATTATGTA
TTTAACATCTTTGTTTGAGGTGCTACCTCAGCAAGTCACCATAGACGCCATCCGTGAGGTAGAGACACTCCCAAG
GAAATATAAAAAAGAATGTGAAGAAGAGGCAATTAATATACAGAGTACAGCGCCTGAGGAGGAGCATGAGAGTCC
CCGAGCTGAAACTCCCAGCACTGTCACTGAGGTCGACATGGATCTGGACAGCTATCAGATTGCGTTGGAGGAAGT
GCTGACCTGGTTGCTTTCTGCTGAGGACACTTTCCAGGAGCAGGATGATATTTCTGATGATGTTGAAGAAGTCAA
AGACCAGTTTGCAACCCATGAAGCTTTTATGATGGAACTGACTGCACACCAGAGCAGTGTGGGCAGCGTCCTGCA
GGCAGGCAACCAACTGATAACACAAGGAACTCTGTCAGACGAAGAAGAATTTGAGATTCAGGAACAGATGACCCT
GCTGAATGCTAGATGGGAGGCTCTTAGGGTGGAGAGTATGGACAGACAGTCCCGGCTGCACGATGTGCTGATGGA
ACTGCAGAAGAAGCAACTGCAGCAGCTCTCCGCCTGGTTAACACTCACAGAGGAGCGCATTCAGAAGATGGAAAC
TTGCCCCCTGGATGATGATGTAAAATCTCTACAAAAGCTGCTAGAAGAACATAAAAGTTTGCAAAGTGATCTTGA
GGCTGAACAGGTGAAAGTAAATTCACTAACTCACATGGTGGTCATTGTTGATGAAAACAGTGGTGAGAGTGCTAC
AGCTATCCTAGAAGACCAGTTACAGAAACTTGGTGAGCGCTGGACAGCAGTATGCCGTTGGACTGAAGAACGCTG
GAATAGGTTACAAGAAATCAATATATTGTGGCAGGAATTATTGGAAGAACAGTGCTTGTTGAAAGCTTGGTTAAC
CGAAAAAGAAGAGGCTTTAAATAAAGTCCAGACAAGCAACTTCAAAGACCAAAAGGAACTAAGTGTCAGTGTTCG
ACGTCTGGCTATTTTGAAGGAAGACATGGAAATGAAGCGTCAAACATTGGATCAGCTGAGTGAGATTGGCCAGGA
TGTGGGACAATTACTTGATAATTCCAAGGCATCTAAGAAGATCAACAGTGACTCAGAGGAACTGACTCAAAGATG
GGATTCTTTGGTTCAGAGACTAGAAGATTCCTCCAACCAGGTGACTCAGGCTGTAGCAAAGCTGGGGATGTCTCA
GATTCCTCAGAAGGACCTTTTGGAGACTGTTCGTGTAAGAGAACAAGCAATTACAAAAAAATCTAAGCAGGAACT
GCCTCCTCCTCCTCCCCCAAAGAAGAGACAGATCCATGTGGATATTGAAGCTAAGAAAAAGTTTGATGCTATAAG
TGCAGAGCTGTTGAACTGGATTTTGAAATGGAAAACTGCCATTCAGACCACAGAGATAAAAGAGTATATGAAGAT
GCAAGACACTTCCGAAATGAAAAAGAAGTTGAAGGCATTAGAAAAAGAACAGAGAGAAAGAATCCCCAGAGCAGA
TGAATTAAACCAAACTGGACAAATCCTTGTGGAGCAAATGGGAAAAGAAGGCCTTCCTACTGAAGAAATAAAAAA
TGTTCTGGAGAAGGTTTCATCAGAATGGAAGAATGTATCTCAACATTTGGAAGATCTAGAAAGAAAGATTCAGCT
ACAGGAAGATATAAATGCTTATTTCAAGCAGCTTGATGAGCTTGAAAAGGTCATCAAGACAAAGGAGGAGTGGGT
AAAACACACTTCCATTTCTGAATCTTCCCGGCAGTCCTTGCCAAGCTTGAAGGATTCCTGTCAGCGGGAATTGAC
AAATCTTCTTGGCCTTCACCCCAAAATTGAAATGGCTCGTGCAAGCTGCTCGGCCCTGATGTCTCAGCCTTCTGC
CCCAGATTTTGTCCAGCGGGGCTTCGATAGCTTTCTGGGCCGCTACCAAGCTGTACAAGAGGCTGTAGAGGATCG
TCAACAACATCTAGAGAATGAACTGAAGGGCCAACCTGGACATGCATATCTGGAAACATTGAAAACACTGAAAGA
TGTGCTAAATGATTCAGAAAATAAGGCCCAGGTGTCTCTGAATGTCCTTAATGATCTTGCCAAGGTGGAGAAGGC
CCTGCAAGAAAAAAGACCCTTGATGAAATCCTTGAGAATCAGAAACCTGCATTACATAAACTTGCAGAAGAAAC
AAAGGCTCTGGAGAAAAATGTTCATCCTGATGTAGAAAAATTATATAAGCAAGAATTTGATGATGTGCAAGGAAA
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FIGURE 1599B

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GTGGAACAAGCTAAAGGTCTTGGTTTCCAAAGATCTACATTTGCTTGAGGAAATTGCTCTCACACTCAGAGCTTT
TGAGGCCGATTCAACAGTCATTGAGAAGTGGATGGATGGCGTGAAAGACTTCTTAATGAAACAGCAGGCTGCCCA
AGGAGACGACGCAGGTCTACAGAGGCAGTTAGACCAGTGCTCTGCATTTGTTAATGAAATAGAAACAATTGAATC
ATCTCTGAAAAACATGAAGGAAATAGAGACTAATCTTCGAAGTGGTCCAGTTGCTGGAATAAAAACTTGGGTGCA
GACAAGACTAGGTGACTACCAAACTCAACTGGAGAAACTTAGCAAGGAGATCGCTACTCAAAAAAGTAGGTTGTC
TGAAAGTCAAGAAAAAGCTGCGAACCTGAAGAAAGACTTGGCAGAGATGCAGGAATGGATGACCCAGGCCGAGGA
AGAATATTTGGAGCGGGATTTTGAGTACAAGTCACCAGAAGAGCTTGAGAGTGCTGTGGAAGAGATGAAGAGGGC
AAAAGAGGATGTGTTGCAGAAGGAGGTGAGAGTGAAGATTCTCAAGGACAACATCAAGTTATTAGCTGCCAAGGT
GCCCTCTGGTGGCCAGGAGTTGACGTCTGAGCTGAATGTTGTGCTGGAGAATTACCAACTTCTTTGTAATAGAAT
TCGAGGAAAGTGCCACACGCTAGAGGAGGTCTGGTCTTGTTGGATTGAACTGCTTCACTATTTGGATCTTGAAAC
TACCTGGTTAAACACTTTGGAAGAGCGGATGAAGAGCACAGAGGTCCTGCCTGAGAAGACGGATGCTGTCAACGA
AGCCCTGGAGTCTCTGGAATCTGTTCTGCGCCACCCGGCAGATAATCGCACCCAGATTCGAGAGCTTGGCCAGAC
TCTGATTGATGGGGGGGATCCTGGATGATATAATCAGTGAGAAACTGGAGGCTTTCAACAGCCGATATGAAGATCT
AAGTCACCTGGCAGAGAGCAAGCAGATTTCTTTGGAAAAGCAACTCCAGGTGCTGCGGGAAACTGACCAGATGCT
TCAAGTCTTGCAAGAGAGCTTGGGGGAGCTGGACAAACAGCTCACCACATACCTGACTGACAGGATAGATGCTTT
CCAAGTTCCACAGGAAGCTCAGAAAATCCAAGCAGAGATCTCAGCCCATGAGCTAACCCTAGAGGAGTTGAGAAG
AAATATGCGTTCTCAGCCCCTGACCTCCCCAGAGAGTAGGACTGCCAGAGGAGGAAGTCAGATGGATGTGCTACA
GAGGAAACTCCGAGAGGTGTCCACAAAGTTCCAGCTTTTCCAGAAGCCAGCTAACTTCGAGCAGCGCATGCTGGA
CTGCAAGCGTGTGCTGGATGGCGTGAAAGCAGAACTTCACGTTCTGGATGTGAAGGACGTAGACCCTGACGTCAT
ACAGACGCACCTGGACAAGTGTATGAAACTGTATAAAACTTTGAGTGAAGTCAAACTTGAAGTGGAAACTGTGAT
TAAAACAGGAAGACATATTGTCCAGAAACAGCAAACGGACAACCCAAAAGGGATGGATGAGCAGCTGACTTCCCT
GAAGGTTCTTTACAATGACCTGGGCGCACAGGTGACAGAAGGAAAACAGGATCTGGAAAGAGCATCACAGTTGGC
CCGGAAAATGAAGAAAGAGGCTGCTTCTCTCTCTGAATGGCTTTCTGCTACTGAAACTGAATTGGTACAGAAGTC
CACTTCAGAAGGTCTGCTTGGTGACTTGGATACAGAAATTTCCTGGGCTAAAAATGTTCTGAAGGATCTGGAAAA
GAGAAAAGCTGATTTAAATACCATCACAGAGAGTAGTGCTGCCCTGCAAAACTTGATTGAGGGCAGTGAGCCTAT
TTTAGAAGAGAGGCTCTGCGTCCTTAACGCTGGGTGGAGCCGAGTTCGTACCTGGACTGAAGATTGGTGCAATAC
CTTGATGAACCATCAGAACCAGCTAGAAATATTTGATGGGAACGTGGCTCACATAAGTACCTGGCTTTATCAAGC
TGAAGCTCTATTGGATGAAATTGAAAAGAAACCAACAAGTAAACAGGAAGAAATTGTGAAGCGTTTAGTATCTGA
GCTGGATGATGCCAACCTCCAGGTTGAAAATGTCCGCGATCAAGCCCTTATTTTGATGAATGCCCGTGGAAGCTC
AAGCAGGGAGCTTGTAGAACCAAAGTTAGCTGAGCTGAATAGGAACTTTGAAAAGGTGTCTCAACATATCAAAAG
TGCCAAATTGCTAATTGCTCAGGAACCATTATACCAATGTTTGGTCACCACTGAAACATTTGAAACTGGTGTGCC
TTTCTCTGACTTGGAAAAATTAGAAAATGACATAGAAAATATGTTAAAATTTGTGGAAAAACACTTGGAATCCAG
TGATGAAGATGAAAAGATGGATGAGGAGAGTGCCCAGATTGAGGAAGTTCTACAAAGAGGAGAAGAAATGTTACA
TCAACCTATGGAAGATAATAAAAAAGAAAAGATCCGTTTGCAATTATTACTTTTGCATACTAGATACAACAAAAT
TAAGGCAATCCCTATTCAACAGAGGAAAATGGGTCAACTTGCTTCTGGAATTAGATCATCACTTCTTCCTACAGA
TTATCTGGTTGAAATTAACAAAATTTTACTTTGCATGGATGATGTTGAATTATCGCTTAATGTTCCAGAGCTCAA
CACTGCTATTTACGAAGACTTCTCTTTTCAGGAAGACTCTCTGAAGAATATCAAAGACCAACTGGACAAACTTGG
AGAGCAGATTGCAGTCATTCATGAAAAACAGCCAGATGTCATCCTTGAAGCCTCTGGACCTGAAGCCATTCAGAT
CAGAGATACACTTACTCAGCTGAATGCAAAATGGGACAGAATTAATAGAATGTACAGTGATCGGAAAGGTTGTTT
TGACAGGGCAATGGAAGAATGGAGACAGTTCCATTGTGACCTTAATGACCTCACACAGTGGATAACAGAGGCTGA
AGAATTACTGGTTGATACCTGTGCTCCAGGTGGCAGCCTGGACTTAGAGAAAGCCAGGATACATCAGCAGGAACT
TGAGGTGGGCATCAGCAGCCACCAGCCCAGTTTTGCAGCACTAAACCGAACTGGGGATGGGATTGTGCAGAAACT
CTCCCAGGCAGATGGAAGCTTCTTGAAAGAAAAACTGGCAGGTTTAAACCAACGCTGGGATGCAATTGTTGCAGA
AGTGAAGGATAGGCAGCCAAGGCTAAAAGGAGAAAGTAAGCAGGTGATGAAGTACAGGCATCAGCTAGATGAGAT
TATCTGTTGGTTAACAAAGGCTGAGCATGCTATGCAAAAGAGATCAACCACCGAATTGGGAGAAAACCTGCAAGA
ATTAAGAGACTTAACTCAAGAAATGGAAGTACATGCTGAAAAACTCAAATGGCTGAATAGAACTGAATTGGAGAT
GCTTTCAGATAAAAGTCTGAGTTTACCTGAAAGGGATAAAAATTTCAGAAAGCTTAAGGACTGTAAAATGACATG
GAATAAGATTTGCAGAGAGGTGCCTACCACCCTGAAGGAATGCATCCAGGAGCCCAGTTCTGTTTCACAGACAAG
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FIGURE 1599C

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GATTGCTGCTCATCCTAATGTCCAAAAGGTGGTGCTAGTATCATCTGCGTCAGATATTCCTGTTCAGTCTCATCG
TACTTCGGAAATTTCAATTCCTGCTGATCTTGATAAAACTATAACAGAACTAGCCGACTGGCTGGTATTAATCGA
CCAGATGCTGAAGTCCAACATTGTCACTGTTGGGGATGTAGAAGAGATCAATAAGACCGTTTCCCGAATGAAAAT
TACAAAGGCTGACTTAGAACAGCGCCATCCTCAGCTGGATTATGTTTTTACATTGGCACAGAATTTGAAAAATAA
AGCTTCCAGTTCAGATATGAGAACAGCAATTACAGAAAAATTGGAAAGGGTCAAGAACCAGTGGGATGGCACCCA
GCATGGCGTTGAGCTAAGACAGCAGCAGCTTGAGGACATGATTATTGACAGTCTTCAGTGGGATGACCATAGGGA
GGAGACTGAAGAACTGATGAGAAAATATGAGGCTCGACTCTATATTCTTCAGCAAGCCCGACGGGATCCACTCAC
CAAACAAATTTCTGATAACCAAATACTGCTTCAAGAACTGGGTCCTGGAGATGGTATCGTCATGGCGTTCGATAA
CGTCCTGCAGAAACTCCTGGAGGAATATGGGAGTGATGACACAAGGAATGTGAAAGAAACCACAGAGTACTTAAA
AACATCATGGATCAATCTCAAACAAAGTATTGCTGACAGACAGAACGCCTTGGAGGCTGAGTGGAGGACGGTGCA
GGCCTCTCGCAGAGATCTGGAAAACTTCCTGAAGTGGATCCAAGAAGCAGAGACCACAGTGAATGTGCTTGTGGA
TGCCTCTCATCGGGAGAATGCTCTTCAGGATAGTATCTTGGCCAGGGAACTCAAACAGCAGATGCAGGACATCCA
GGCAGAAATTGATGCCCACAATGACATATTTAAAAGCATTGACGGAAACAGGCAGAAGATGGTAAAAGCTTTGGG
AAATTCTGAAGAGGCTACTATGCTTCAACATCGACTGGATGATATGAACCAAAGATGGAATGACTTAAAAGCAAA
ATCTGCTAGCATCAGGGCCCATTTGGAGGCCAGCGCTGAGAAGTGGAACAGGTTGCTGATGTCCTTAGAAGAACT
GATCAAATGGCTGAATATGAAAGATGAAGAGCTTAAGAAACAAATGCCTATTGGAGGAGATGTTCCAGCCTTACA
GCTCCAGTATGACCATTGTAAGGCCCTGAGACGGGAGTTAAAGGAGAAAGAATATTCTGTCCTGAATGCTGTCGA
CCAGGCCCGAGTTTTCTTGGCTGATCAGCCAATTGAGGCCCCTGAAGAGCCAAGAAGAAACCTACAATCAAAAAC
AGAATTAACTCCTGAGGAGAGAGCCCAAAAGATTGCCAAAGCCATGCGCAAACAGTCTTCTGAAGTCAAAGAAAA
ATGGGAAAGTCTAAATGCTGTAACTAGCAATTGGCAAAAGCAAGTGGACAAGGCATTGGAGAAACTCAGAGACCT
GCAGGGAGCTATGGATGACCTGGACGCTGACATGAAGGAGGCAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGG
AGACTTACTCATTGACTCGCTGCAGGATCACATTGAAAAAATCATGGCATTTAGAGAAGAAATTGCACCAATCAA
CTTTAAAGTTAAAACGGTGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGCATCCCTCTCTAAAGATGTC
TCGCCAGCTAGATGACCTTAATATGCGATGGAAACTTTTACAGGTTTCTGTGGATGATCGCCTTAAACAGCTTCA
GGAAGCCCACAGAGATTTTGGACCATCCTCTCAGCATTTTCTCTCTACGTCAGTCCAGCTGCCGTGGCAAAGATC
CATTTCACATAATAAAGTGCCCTATTACATCAACCATCAAACACAGACCACCTGTTGGGACCATCCTAAAATGAC
CGAACTCTTTCAATCCCTTGCTGACCTGAATAATGTACGTTTTTCTGCCTACCGTACAGCAATCAAAATCCGAAG
ACTACAAAAAGCACTATGTTTGGATCTCTTAGAGTTGAGTACAACAAATGAAATTTTCAAACAGCACAAGTTGAA
CCAAAATGACCAGCTCCTCAGTGTTCCAGATGTCATCAACTGTCTGACAACAACTTATGATGGACTTGAGCAAAT
GCATAAGGACCTGGTCAACGTTCCACTCTGTGTTGATATGTGTCTCAATTGGTTGCTCAATGTCTATGACACGGG
TCGAACTGGAAAAATTAGAGTGCAGAGTCTGAAGATTGGATTAATGTCTCTCTCCAAAGGTCTCTTGGAAGAAAA
ATACAGATATCTCTTTAAGGAAGTTGCAGGGCCAACAGAAATGTGTGACCAGAGGCAGCTGGGCCTGTTACTTCA
TGATGCCATCCAGATCCCCCGGCAGCTAGGTGAAGTAGCAGCTTTTGGAGGCAGTAATATTGAGCCTAGTGTTCG
CAGCTGCTTCCAACAGAATAACAATAAACCAGAAATAAGTGTGAAAGAGTTTATAGATTGGATGCATTTGGAACC
ACAGTCCATGGTTTGGCTCCCAGTTTTACATCGAGTGGCAGCAGCGGAGACTGCAAAACATCAGGCCAAATGCAA
CATCTGTAAAGAATGTCCAATTGTCGGGTTCAGGTATAGAAGCCTTAAGCATTTTAACTATGATGTCTGCCAGAG
TTGTTTCTTTTCGGGTCGAACAGCAAAAGGTCACAAATTACATTACCCAATGGTGGAATATTGTATACCTACAAC
ATCTGGGGAAGATGTACGAGACTTCACAAAGGTACTTAAGAACAAGTTCAGGTCGAAGAAGTACTTTGCCAAACA
CCCTCGACTTGGTTACCTGCCTGTCCAGACAGTTCTTGAAGGTGACAACTTAGAGACTCCTATCACACTCATCAG
TATGTGGCCAGAGCACTATGACCCCTCACAATCTCCTCAACTGTTTCATGATGACACCCATTCAAGAATAGAACA
ATATGCCACACGACTGGCCCAGATGGAAAGGACTAATGGGTCTTTTCTCACTGATAGCAGCTCCACCACAGGAAG
TGTGGAAGACGAGCACGCCCTCATCCAGCAGTATTGCCAAACACTCGGAGGAGAGTCCCCAGTGAGCCAGCCGCA
GAGCCCAGCTTCAGATCCTGAAGTCAGTAGAGAGGGAAGAACGTGGAGAACTGGAGAGGATCATTGCTGACCTGGA
GGAAGAACAAAGAAATCTACAGGTGGAGTATGAGCAGCTGAAGGACCAGCACCTCCGAAGGGGGCTCCCTGTCGG
TTCACCGCCAGAGTCGATTATATCTCCCCATCACACGTCTGAGGATTCAGAACTTATAGCAGAAGCAAAACTCCT
CAGGCAGCACAAAGGTCGGCTGGAGGCTAGGATGCAGATTTTAGAAGATCACAATAAACAGCTGGAGTCTCAGCT
CCACCGCCTCCGACAGCTGCTGGAGCAGCCTGAATCTGATTCCCGAATCAATGGTGTTTCCCCATGGGCTTCTCC
TCAGCATTCTGCACTGAGCTACTCGCTTGATCCAGATGCCTCCGGCCCACAGTTCCACCAGGCAGCGGGAGAGGA
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1762/2682
FIGURE 1599D

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CCTGCTGGCCCCACCGCACGACACCAGCACGGATCTCACGGAGGTCATGGAGCAGATTCACAGCACGTTTCCATC
TTGCTGCCCAAATGTTCCCAGCAGGCCACAGGCAATGTGAAGTATTCATCCGGCCAACCAATGTTTCCTGACGTA
CAGTGTTGCCCTTTTCAGCAAATGCCAATTCCAAGTTCCATTAAATCAGAAGCTCCATGGCTCCTTGGCCCACGA
TGTTGAGTGCTGACTGTGTGTTCTACTGAAAGAGTAAAACACTGACTATCCAAAGAGAAATGGATATTTTGTTTT
TATAATAACCATATATTATTGTTTTCTTCTTCCCTTTCTATGCAAGTGTAAATTAATGAACAGAGAGGTATTTGG
AAATGGTAATACATTTGTCACGGATTTGTATAATGTATACAGCATTGGGAAAGTGGGTGGGGGCTTTCTAATATG
ATACCGTCTTTTTAATAACTATGACAAAGCTTACATAAGAATTAGAAGACCACTTTACATTTTTACATTCCTTCT
GCTGTTCATATTAACCTTGCACAATTACTTCATTTTTTCTTTGACTCTTTTACCACAATGTTTTGGTTATTTATA
ATTTATCAGCCATATGTTTATCAGCCATATAACCAACTAGATCCCAAATAGATCCATGTATTTGTTTCCGTGATT
TGGCCACATTAATAAATTCATAAATTTCAATCAAATATCTTATATATACACACATATGGTTTAAGCTACAGCCCT
GTGTATGCCGTTTAACTTTATTTGACGTTGCCCACTTACTTCTTTGCTGACCACTTGGATAACCGTAATAAAAAT
CCTATAAGCCTAAATGGCATTTCTTTTGGGATATTTTTCCTGCATTTTATTCCCTTTTTATATAAGTAGGAATTA
ATTATTTATTTTATGTCTTAATCTATTTGATAAAGAAGACTACATTATAATAATCTCAAAGATCATATTACCAAA
GGTTGCCCACTTGAGCATATTTTCATTTTGACACAGAAACAAAATTTAGTACAACCTTTCCTAGTTCCCATGTCT
TGATTTTCATCATTACATGCACAGCAGACCTTTACCTATTGTGATACCAGAACACATCATTGTCTTTGGTTCCCT
TCAAAGAGAATTTTATTGTTGTTTTGTATTTTCAAGTCCTTAATAGTTCTTGAAACTCCTAGTTGTTTCTTGTT
GAAAGCAGACACACATTTAGTGCACGGCTTATTTTACCTTTCGGGTGAAAGATCAGATGTTTTTATACCCTTCAC
TTGATCAATATATTTGGAAAGAATGTTTATCAAAAGTCTATGTCACTGCTTCTACAGAAGAATGAAATTAATGCT
TAGGTGATGGTACCTCCACCTACATCTTTTTGAGTGCATTCAATTATGTATTTTGGTTTAGCTTCTGATTTAACA
TTTAATTGATTCAGTTTAAACATGTTACTTAATTAGCAAATGTAGAGGAACCAAAAAAAGGTGAAAATAATATGT
TTTGATTCAAACCTAAAGACATAAAAACATAAAGACATTTTAACTTTGGGTTCTCTTTAGCTGGGATCTGGCCAG
AAGGAGGCTTAAAGTTAGAAATTGCTATTATTTTAGAATAGGTTGGGTGGGTTGGGGGGCAAGGGTGTCTATTTG
CAGCAGAGATATTTTGAAAAGAAGAAAATTGTTTATATAAAAAGGAAAGCCATGACCACCTTTCTACCTCAGAT
CCATCTTCATCCATTGCATTGGAAACTGCTTTATGCTGCTGCAGTCTGCAAAGTCTAGAGCTTTTATCAGGCCAT
GTCATACCCAAGAAAGCACCTATTTAAAGAAAAAACAATTCCCTGAGCTCTCAACTCCAAGTTGTAGATTTGGTG
TCTTCCTTGTTCTTACTTTAAAAAGTCATGTGTTAATTTTTTTTCTGCCTGTATTTGTATGCAAAATGTCCTCTA
TCTGCTATTAAAGAAAAGCTACGTAAAACACTACATTGTAACCTTCTAAGTAATAATAAATAAAAAGAAATATAT
TGCAGTAACAATGGGAAGTAAGTATGTAGTTCTTTTGAAATATGTGGTAAAGAACTAATCACAGACTATCATCTA
ATCTGGTTACATATTGTATTTTTCATCCTGAATAAAAGTAATTTTAACACTAAAAAAAATCTATGTCGGGTGCGG
AGAAAGAGGTAATGAAATGGCAGGAATTCAGATATCAGCTTATCATACC
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FIGURE 1600

MAKYGEHEASPDNGQNEFSDIIKSRSDEHNDVQKKTFTKWINARFSKSGKPPINDMFTDLKDGRKLLDLLEGLTG
TSLPKERGSTRVHALNNVNRVLQVLHQNNVELVNIGGTDIVDGNHKLTLGLLWSIILHWQVKDVMKDVMSDLQQT
NSEKILLSWVRQTTRPYSQVNVLNFTTSWTDGLAFNAVLHRHKPDLFSWDKVVKMSPIERLEHAFSKAQTYLGIE
KLLDPEDVAVQLPDKKSIIMYLTSLFEVLPQQVTIDAIREVETLPRKYKKECEEEAINIQSTAPEEEHESPRAET
PSTVTEVDMDLDSYQIALEEVLTWLLSAEDTFQEQDDISDDVEEVKDQFATHEAFMMELTAHQSSVGSVLQAGNQ
LITQGTLSDEEEFEIQEQMTLLNARWEALRVESMDRQSRLHDVLMELQKKQLQQLSAWLTLTEERIQKMETCPLD
DDVKSLQKLLEEHKSLQSDLEAEQVKVNSLTHMVVIVDENSGESATAILEDQLQKLGERWTAVCRWTEERWNRLQ
EINILWQELLEEQCLLKAWLTEKEEALNKVQTSNFKDQKELSVSVRRLAILKEDMEMKRQTLDQLSEIGQDVGQL
LDNSKASKKINSDSEELTQRWDSLVQRLEDSSNQVTQAVAKLGMSQIPQKDLLETVRVREQAITKKSKQELPPPP
PPKKRQIHVDIEAKKKFDAISAELLNWILKWKTAIQTTEIKEYMKMQDTSEMKKKLKALEKEQRERIPRADELNQ
TGQILVEQMGKEGLPTEEIKNVLEKVSSEWKNVSQHLEDLERKIQLQEDINAYFKQLDELEKVIKTKEEWVKHTS
ISESSRQSLPSLKDSCQRELTNLLGLHPKIEMARASCSALMSQPSAPDFVQRGFDSFLGRYQAVQEAVEDRQQHL
ENELKGQPGHAYLETLKTLKDVLNDSENKAQVSLNVLNDLAKVEKALQEKKTLDEILENQKPALHKLAEETKALE
KNVHPDVEKLYKQEFDDVQGKWNKLKVLVSKDLHLLEEIALTLRAFEADSTVIEKWMDGVKDFLMKQQAAQGDDA
GLQRQLDQCSAFVNEIETIESSLKNMKEIETNLRSGPVAGIKTWVQTRLGDYQTQLEKLSKEIATQKSRLSESQE
KAANLKKDLAEMQEWMTQAEEEYLERDFEYKSPEELESAVEEMKRAKEDVLQKEVRVKILKDNIKLLAAKVPSGG
QELTSELNVVLENYQLLCNRIRGKCHTLEEVWSCWIELLHYLDLETTWLNTLEERMKSTEVLPEKTDAVNEALES
LESVLRHPADNRTQIRELGQTLIDGGILDDIISEKLEAFNSRYEDLSHLAESKQISLEKQLQVLRETDQMLQVLQ
ESLGELDKQLTTYLTDRIDAFQVPQEAQKIQAEISAHELTLEELRRNMRSQPLTSPESRTARGGSQMDVLQRKLR
EVSTKFQLFQKPANFEQRMLDCKRVLDGVKAELHVLDVKDVDPDVIQTHLDKCMKLYKTLSEVKLEVETVIKTGR
HIVQKQQTDNPKGMDEQLTSLKVLYNDLGAQVTEGKQDLERASQLARKMKKEAASLSEWLSATETELVQKSTSEG
LLGDLDTEISWAKNVLKDLEKRKADLNTITESSAALQNLIEGSEPILEERLCVLNAGWSRVRTWTEDWCNTLMNH
QNQLEIFDGNVAHISTWLYQAEALLDEIEKKPTSKQEEIVKRLVSELDDANLQVENVRDQALILMNARGSSREL
VEPKLAELNRNFEKVSQHIKSAKLLIAQEPLYQCLVTTETFETGVPFSDLEKLENDIENMLKFVEKHLESSDEDE
KMDEESAQIEEVLQRGEEMLHQPMEDNKKEKIRLQLLLLHTRYNKIKAIPIQQRKMGQLASGIRSSLLPTDYLVE
INKILLCMDDVELSLNVPELNTAIYEDFSFQEDSLKNIKDQLDKLGEQIAVIHEKQPDVILEASGPEAIQIRDTL
TQLNAKWDRINRMYSDRKGCFDRAMEEWRQFHCDLNDLTQWITEAEELLVDTCAPGGSLDLEKARIHQQELEVGI
SSHQPSFAALNRTGDGIVQKLSQADGSFLKEKLAGLNQRWDAIVAEVKDRQPRLKGESKQVMKYRHQLDEIICWL
TKAEHAMQKRSTTELGENLQELRDLTQEMEVHAEKLKWLNRTELEMLSDKSLSLPERDKISESLRTVNMTWNKIC
REVPTTLKECIQEPSSVSQTRIAAHPNVQKVVLVSSASDIPVQSHRTSEISIPADLDKTITELADWLVLIDQMLK
SNIVTVGDVEEINKTVSRMKITKADLEQRHPQLDYVFTLAQNLKNKASSSDMRTAITEKLERVKNQWDGTQHGVE
LRQQQLEDMIIDSLQWDDHREETEELMRKYEARLYILQQARRDPLTKQISDNQILLQELGPGDGIVMAFDNVLQK
LLEEYGSDDTRNVKETTEYLKTSWINLKQSIADRQNALEAEWRTVQASRRDLENFLKWIQEAETTVNVLVDASHR
ENALQDSILARELKQQMQDIQAEIDAHNDIFKSIDGNRQKMVKALGNSEEATMLQHRLDDMNQRWNDLKAKSASI
RAHLEASAEKWNRLLMSLEELIKWLNMKDEELKKQMPIGGDVPALQLQYDHCKALRRELKEKEYSVLNAVDQARV
FLADQPIEAPEEPRRNLQSKTELTPEERAQKIAKAMRKQSSEVKEKWESLNAVTSNWQKQVDKALEKLRDLQGAM
DDLDADMKEAESVRNGWKPVGDLLIDSLQDHIEKIMAFREEIAPINFKVKTVNDLSSQLSPLDLHPSLKMSRQLD
DLNMRWKLLQVSVDDRLKQLQEAHRDFGPSSQHFLSTSVQLPWQRSISHNKVPYYINHQTQTTCWDHPKMTELFQ
SLADLNNVRFSAYRTAIKIRRLQKALCLDLLELSTTNEIFKQHKLNQNDQLLSVPDVINCLTTTYDGLEQMHKDL
VNVPLCVDMCLNWLLNVYDTGRTGKIRVQSLKIGLMSLSKGLLEEKYRYLFKEVAGPTEMCDQRQLGLLLHDAIQ
IPRQLGEVAAFGGSNIEPSVRSCFQQNNNKPEISVKEFIDWMHLEPQSMVWLPVLHRVAAAETAKHQAKCNICKE
CPIVGFRYRSLKHFNYDVCQSCFFSGRTAKGHKLHYPMVEYCIPTTSGEDVRDFTKVLKNKFRSKKYFAKHPRLG
YLPVQTVLEGDNLETPITLISMWPEHYDPSQSPQLFHDDTHSRIEQYATRLAQMERTNGSFLTDSSSTTGSVEDE
HALIQQYCQTLGGESPVSQPQSPAQILKSVEREERGELERIIADLEEEQRNLQVEYEQLKDQHLRRGLPVGSPPE
SIISPHHTSEDSELIAEAKLLRQHKGRLEARMQILEDHNKQLESQLHRLRQLLEQPESDSRINGVSPWASPQHSA
LSYSLDPDASGPQFHQAAGEDLLAPPHDTSTDLTEVMEQIHSTFPSCCPNVPSRPQAM

FIGURE 1601A

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CGCCCGGCCCCCTCCCCCGGCGCCGGCCACGGGAGGCGGTGATGCGGGCGCGGGCGGCCTCGGCTGCGCCGAGAG
CGGAGACACAGGCTCAAGATGGCAGATTCCGACTGAGGCTGGGGGGGCCGAGCTCGCGCGCCGCTTTCCCGTCCC
CGTTGCCATGAACCGCGGACACCCCGGCCCCGATGGCCCCCGTGTACGAAGGTATGGCCTCACATGTGCAAGTTT
TCTCCCCTCACACCCTTCAATCAAGTGCCTTCTGTAGTGTGAAGAAACTGAAAATAGAGCCGAGTTCCAACTGGG
ACATGACTGGGTACGGCTCCCACAGCAAAGTGTATAGCCAGAGCAAGAACATCCCCCTGTCGCAGCCAGCCACCA
CAACCGTCAGCACCTCCTTGCCGGTCCCAAACCCAAGCCTACCTTACGAGCAGACCATCGTCTTCCCAGGAAGCA
CCGGGCACATCGTGGTCACCTCAGCAAGCAGCACTTCTGTCACCGGGCAAGTCCTCGGCGGACCCACACAACCTAA
TGCGTCGAAGCACTGTGAGCCTCCTTGATACCTACCAAAAATGTGGACTCAAGCGTAAGAGCGAGGAGATCGAGA
ACACAAGCAGCGTGCAGATCATCGAGGAGCATCCACCCATGATTCAGAATAATGCAAGCGGGGCCACTGTCGCCA
CTGCCACCACGTCTACTGCCACCTCCAAAAACAGCGGCTCCAACAGCGAGGGCGACTATCAGCTGGTGCAGCATG
AGGTGCTGTGCTCCATGACCAACACCTACGAGGTCTTAGAGTTCTTGGGCCGAGGGACGTTTGGGCAAGTGGTCA
AGTGCTGGAAACGGGGCACCAATGAGATCGTAGCCATCAAGATCCTGAAGAACCACCCATCCTATGCCCGACAAG
GTCAGATTGAAGTGAGCATCCTGGCCCGGTTGAGCACGGAGAGTGCCGATGACTATAACTTCGTCCGGGCCTACG
AATGCTTCCAGCACAAGAACCACACGTGCTTGGTCTTCGAGATGTTGGAGCAGAACCTCTATGACTTTCTGAAGC
AAAACAAGTTTAGCCCCTTGCCCCTCAAATACATTCGCCCAGTTCTCCAGCAGGTAGCCACAGCCCTGATGAAAC
TCAAAAGCCTAGGTCTTATCCACGCTGACCTCAAACCAGAAAACATCATGCTGGTGGATCCATCTAGACAACCAT
ACAGAGTCAAGGTCATCGACTTTGGTTCAGCCAGCCACGTCTCCAAGGCTGTGTGCTCCACCTACTTGCAGTCCA
GATATTACAGGGCCCCTGAGATCATCCTTGGTTTACCATTTTGTGAGGCAATTGACATGTGGTCCCTGGGCTGTG
TTATTGCAGAATTGTTCCTGGGTTGGCCGTTATATCCAGGAGCTTCGGAGTATGATCAGATTCGGTATATTTCAC
AAACACAGGGTTTGCCTGCTGAATATTTATTAAGCGCCGGGACAAAGACAACTAGGTTTTTCAACCGTGACACGG
ACTCACCATATCCTTTGTGGAGACTGAAGACACCAGATGACCATGAAGCAGAGACAGGGATTAAGTCAAAAGAAG
CAAGAAAGTACATTTTCAACTGTTTAGATGATATGGCCCAGGTGAACATGACGACAGATTTGGAAGGGAGCGACA
TGTTGGTAGAAAAGGCTGACCGGCGGGAGTTCATTGACCTGTTGAAGAAGATGCTGACCATTGATGCTGACAAGA
GAATCACTCCAATCGAAACCCTGAACCATCCCTTTGTCACCATGACACACTTACTCGATTTTCCCCACAGCACAC
ACGTCAAATCATGTTTCCAGAACATGGAGATCTGCAAGCGTCGGGTGAATATGTATGACACGGTGAACCAGAGCA
AAACCCCTTTCATCACGCACGTGGCCCCCAGCACGTCCACCAACCTGACCATGACCTTTAACAACCAGCTGACCA
CTGTCCACAACCAGCCCTCAGCGGCATCCATGGCTGCAGTGGCCCAGCGGAGCATGCCCCTGCAGACAGGAACAG
CCCAGATTTGTGCCCGGCCTGACCCGTTCCAGCAAGCTCTCATCGTGTGTCCCCCCGGCTTCCAAGGCTTGCAGG
CCTCTCCCTCTAAGCACGCTGGCTACTCGGTGCGAATGGAAAATGCAGTTCCCATCGTCACTCAAGCCCCAGGAG
CTCAGCCTCTTCAGATCCAACCAGGTCTGCTTGCCCAGCAGGCTTGGCCAAGTGGGACCCAGCAGATCCTGCTTC
CCCCAGCATGGCAGCAACTGACTGGAGTGGCCCACCCACACATCAGTGCAGCATGCCACCGTGATTCCCGAGACCA
TGGCAGGCACCCAGCAGCTGGCGGACTGGAGAAATACGCATGCTCACGGAAGCCATTATAATCCCATCATGCAGC
AGCCTGCACTATTGACCGGTCATGTGACCCTTCCAGCAGCACAGCCCTTAAATGTGGGTGTGGCCCACGTGATGC
GGCAGCAGCCAACCAGCACCACCTCCTCCCGGAAGAGTAAGCAGCACCAGTCATCTGTGAGAAATGTCTCCACCT
GTGAGGTGTCCTCCTCTCAGGCCATCAGCTCCCCACAGCGATCCAAGCGTGTCAAGGAGAACACACCTCCCCGCT
GTGCCATGGTGCACAGTAGCCCGGCCTGCAGCACCTCGGTCACCTGTGGGTGGGGCGACGTGGCCTCCAGCACCA
CCCGGGAACGGCAGCGGCAGACAATTGTCATTCCCGACACTCCCAGCCCCACGGTCAGCGTCATCACCATCAGCA
GTGACACGGACGAGGAGGAGGAACAGAAACACGCCCCCACCAGCACTGTCTCCAAGCAAAGAAAAAACGTCATCA
GCTGTGTCACAGTCCACGACTCCCCCTACTCCGACTCCTCCAGCAACACCAGCCCCTACTCCGTGCAGCAGCGTG
CTGGGCACAACAATGCCAATGCCTTTGACACCAAGGGGAGCCTGGAGAATCACTGCACGGGGAACCCCCGAACCA
TCATCGTGCCACCCCTGAAAACCCAGGCCAGCGAAGTATTGGTGGAGTGTGATAGCCTGGTGCCAGTCAACACCA
GTCACCACTCGTCCTCCTACAAGTCCAAGTCCTCCAGCAACGTGACCTCCACCAGCGGTCACTCTTCAGGGAGCT
CATCTGGAGCCATCACCTACCGGCAGCAGCGGCCGGGCCCCCACTTCCAGCAGCAGCAGCCACTCAATCTCAGCC
AGGCTCAGCAGCACATCACCCACGGACCGCACTGGGAGCCACCGAAGGCAGCAGGCCTACATCACTCCCACCATGG
CCCAGGCTCCGTACTCCTTCCCGCACAACAGCCCCAGCCACGGCACTGTGCACCCGCATCTGGCTGCAGCCGCTG
CCGCTGCCCACCTCCCCACCCAGCCCCACCTCTACACCTACACTGCGCCGGCGGCCCTGGGCTCCACCGGCACCG
TGGCCCACCTGGTGGCCTCGCAAGGCTCTGCGCGCCACACCGTGCAGCACACTGCCTACCCAGCCAGCATCGTCC
ACCAGGTCCCCGTGAGCATGGGCCCCCGGGTCCTGCCCTCGCCCACCATCCACCCGAGTCAGTATCCAGCCCAAT
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FIGURE 1601B

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TTGCCCACCAGACCTACATCAGCGCCTCGCCAGCCTCCACCGTCTACACTGGATACCCACTGAGCCCCGCCAAGG
TCAACCAGTACCCTTACATATAAACACTGGAGGGGAGGGTGGGAGGGAGGGAGGGAGAGAATGGCCCGAGGGAGG
AGGGAGAGAAGGAGGGAGGCGCTCCTGGGACCGTGGGCGCTGGCCTTTTATACTGAAGATGCCGCACACAAACAA
TGCAAACGGGGCAGGTGCGGGGGGGGGGGGGGGCAGAGGGCAGGGGGACGGGGTCGGGACACCAGTGAAACTTGAA
CCGGGAAGTGGGAGGACGTAGAGCAGAGAAGAGAACATTTTTAAAAGGAAGGGATTAAAGAGGGTGGGAAATCTA
TGGTTTTTATTTAAAAAAGGAAAAGGGAAAAAAAAAAAGGTCAATAACAAAAAACCCAGCTCAAGAACCCATTCT
ACGCCAAACTGGAAAGGAGAAGAGAGCAACAGGAAGATTCCAGAAACGGGGGGGCCCCAGTTTTTGAAGAACTTTA
TGAACTTTTCAAAGATTATTTTCATATGGCAGCAAGTGATACGGAAGACTGCTGTCAGGGACACCTGATATGGAA
ATCAAATAGATTTTTAATTAATTGAACATAAGATTTAGGGATTTTTCCAGAACTCGAAAGGGTCAACAGCCCTCC
AGAATGTCGGGCTGCAGCCTGAGGAGGCTGATGTTTGGAGCTGGTGTGGGATTGGCGAAGCCCAGTCCGGGCTCC
CTAGTCAGGAAAGACGGGGGACGGCCAGGCTGCTGGAAGGCCCCCGGGGGCGCGGGGCGAGTTTTCTTTTTCTGA
GCACTCTGGATAAATCCCTAAGCAACGTTGTTTCTCAAATGTCATTAATAATGTGTGTTGCAAACTTTAGGTTTT
TTTCTTTTCTGAAAATGTATTTTCTCTTTGAATCCACCCCTAGTCGCGTAGCGTAGGGCTAGCGGTCGTCACAGA
CACCCTAGTAGAATGTAGCACTCAGCACCCTTGTCTCCTACCTTGTGTTCAACTCCAATGATACCAATAGAATAT
TCCTCAATGTAATTGCACAAAAAAAAGCGATATAACATAGGCATGTAACCAATGTGGCGGTGCAGGTGTGCGGGT
GAGCGAGCACGTGTGGGTGTGCACGCGCCGCCCTCCCCGCGTGGCCCTCGGCGCCGCCACCCTAGCTGGCGCAGT
CTTGACACTGCATCCTTCCCTCCTAGTGCCTTACCGAGCGACAGACGCGGCGTGAGGGTTTACTTCCACTGGTAC
TCCAAGAAACTGAGGCTAGTCAGACACAATCTCAGCTCTTCTGTTGTGCTGTTGTAACAGTTTACGCTGGCCTTT
TTTTTTTCTTTTTCTTTTTCTTTTTAAAATGTTAATGCCCGTTGTCTTTCCTGGGCTGTTTGCTAGCGGAAGGAT
GCCAGGGAAGCCAGCAGGAGCTAGGAGAGAGTCCGTGGATCTCGAAAGAAATATGGGAGACAGATGCCCGGCGGG
TGCGTCTGGAGATGGGGACGGCGGGAGTTGAGTTGTGGCAGTAGTTGAGTTGTAATTTGTGGGCGGAGGCCCAGA
GAGACTCCCCACCCTTCACCCCTGCCCCACTCTGTCCCCAGTTCCGCCATTTGTGAGGCCAGAGGTTTCCGGACT
GTTGGCCTCGCCAGGCAGCCGTCTCCCGCCCCAGGCGGCATCCCCCAGTCCCTCCCGCCTCCACGAGAGCCTGGA
GCTCTCAGCCTCGCCCGGGGCTCCACTCTCTCCTCCGGCTCCCTGGGCTGTTTGCTCTAACGATCTTGCCAGAT
CCCTCCCTCTGTAGACAACCACCAACCTCTGTTTGCTGTTGAATTCTCTCCTCACATTACCCAGGTCTGCTCAAG
ACATGATTTTGGTTTTGGTTTCTGAGGGTTCTAGTGGGCAGAAGGTTGGAGGGACACTTATGAGGGTGGCCGGGG
GTCTGACGCTGCACTTTGGAAAAACTCACACAGTTGAATTTCCAAAGAAATCTGCCCTTTGCCCTCTTTGCACCT
TTGATACATTCTGGAAGTTTTCTCAGGCTTTGGACACTTCTGGGGATGGAGGTGTGGAGAAGTGGGGAGTTCCCT
CTCTTCATAGTAAATAACTCTGAAATATGTGAATGTGAATGGCAGGAGAATCTGGCCAAGGATGGGGCCGAAAAG
GGTGGTTCTAATTGTTTGCTTCTGATGTTGAGTCTTTAGCTGACCCCACAGGCAGGTTTCCAAGGTGCAAAGAGA
TCTTTCCCGAGTCAGCGGCCCCATCCTCATCCTCCCTCCCTTTACTTCCTCACTGTGCAGTCTCCCTCAAGGATC
TACTGTGAAAGGTGTGTTTGTAGTGATATCCAACCTAACTCAGTAACGAAGTCGTTACTTAGCTCTTAGCTGTGA
AATAACTCTGGAAACTTCCCCACCCCAACCATAAATTCTTACTTATAAAGAAACAGGTCCCCAAACTGGAAACAG
CTTAGTCCAGGCCTCAGCGAGAAGGAAGGACACCATGACTGCTCCATGCTGGGCACAGCCGGGCAGTCTTGCCAA
GTGCCTGCTGGAGGCTGTGCCGGCAAGAGGCCTGCAGCAAGGAGATTCCCTTCCCTCGGGCCATTATCAATACTG
TCTTTATCTGGAGGTGGGGAAGCGCAGCCCTCTGAGACAGCAGGACAATGGTCAGTTCAGAGAGGGTGAGGGCAG
CAAACGCTTCAGAGGACACAGAAGCCAGAGGACCCCCCCCCGCCCCACAGCTGGGTCAGCCTGGAAAATCCATCT
ATTAGGGACTTTTTGGCAGCCAGATGGCAGCAATAGCCCATTAGGTCTCATCCCGAGTTCCAAGTCTTGGCTGCA
AATGAGCCTCAGTTCGCCTTACTGGAGAGCACCCCAGATTCCTGGGCACAGTTCATTTCCAGCCCTTTCTAGAT
CTGATCTTTTAGGGGGAAAGACAGCTTAAAATGTTCTTTTCATTTAAAGAAAATTATTCTGTCTGCTTAAGTTG
GAGGCTACTTACTCTTTCACCTGACATTTTCTTTCCTTTTATTCTTCCAGATCAGGAATGAAATTTCCATGCTGC
TCATAAAGATAATATTATTGTACTAATTATTTTTATTACCATTGTAATTATGATCATTATGTTGATATTTTAGTC
AGGGTTTTAAATGCACATTTATTCCAAGTATCTTTGTGTTTTCTCTTTAATATTTAAACTTATTCTCTCTGTGAG
TATATAAGTAGACTGGAGGGACATCCAGATGTCCAGTTTTGTCAGGCCAAAAAAAAAAGGAAAGACTTAGGAAGT
AGGAAAATTGTTTCTGTCATCTCTATCCCAACAAGAGACGTCAAGAAAGATCCACCACAGAACAAAAGTTTAAAG
AAGAATCAAAGCCTTGATTGGGCTTCTGACAACATGGTCACCATCAAGGTTGTCATTTTCTAGATCCCAGAGGCC
TGGGATGCGACGTCAGGTGGCATCTCATGGGCTCGGGGAATGTCGAGTCACTGACTGTCCAGCCCTTAGCCAGCT
TCTCTCCCACATCCTCAGAGCTCTCCTGTGCTTCTGAAATCTGTTAACTAAATCTTTGGCTTGCCTCTGGTATTT
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FIGURE 1601C

AAGCAAGAAAATTCCCTCGCAGAGGTGACCCCATCCGCTTCCCCACAATCCATCCTTTTGCCATCGGCGCACCTG
GGGCGTGGCTTAGGTTCTTCAATGCAGGGACATTTGCCCCCTCCCAGAAGCTGCTGGGCACAGTGAGGTGGCGTA
AGAGTGACTGGCAGGTGGTACCTTCCCCAGGAAATTTCACCACACCACCCAGTTCCTCAGCCTGCCCCCTCCCCC
TGTGATGCATGCCCCCAGCACCCAATTCTAGCCAGCTGGAAGTGGGTGGAGGGACAGCAGGAGGCCAGAGAAACC
,CTGAACAAAGCTGGGCGGCTGCTCAGGCATCACAGGCTGCACCCCCTCTGAAAGCATCCCCACTGGGCTCCGGCC
ACATCTTCAGTGCACTGTGCTGTGTGCGCTGGGTGCTCACACGCTGTCCCCAGACCCACAAAGTGCTAGGCCCCA
GTTGAAGAAAGGGGTGAAATAGCCAGCTTCACCGAAGGGAAGGGAAGGGAAGTATTGGGCGATGCCAGCCCCACA
GACGCTCAGCAAACATTAGTGCACATTCTCCTAGTCCTCACCCAATGGCCTCCTCTACCCCCATGCATGGAGCTG
CCACATCAGAAGCCCCAAGAGAAGCTCCCTGCAGGAGAGGCCAGCTCCCTGGATGCCCAATTGCATACCTGGCCG
AATCTGCCATTGAGTCACCTTAGCAAATAGGCTGCTGTCACTAGGACCAAGCTCTCAAGCAGAGGGATGCCAACC
TAGTCCTTACTTAGCCCACGAATCATCTAGAGCATCCTCTAGTCTTTTGTGGGCTCCCTCCTTCCCATTTGAAGA
GACATTGTTCAGAGGAAGAGGGGAAGATTTGAAATGTCAGGTCACGGAGGAGTGTTTAACTGGAGCCTGGTGAAC
CGCAGGGCAATTTGCTTCTGCTCACTGGGTTCTGACTGGCCCGTCTGGACGTGGGCCCCCATGTCTCTGTGCTTA
GGGCCTCTTCATGATGTTTTGGATGTTTCCAAGGGAAGTGGGTGAGCAGATCAAGGGGTGGGAGAGTCGAGGCTT
GATTCCAGTTAATACTGTGAAGTGGAGCGTGCGGTCAGTGGAATTCAGAGGAAAAAGAAGGGTTGGAGCAAAGCG
GCATTCATCTCCTGGACTGTTAGCCTTTCTAGTCTTCCTGGTGGCTGAGGTGTTCACGGGCTGGGGGAGCCAGCT
GACCTTTGTCCTCTTCAACCTAGAAGACTCAGCCCGCCCAGACACCAACGTGTGAGACGGATGGACATCAGGAAG
GGAAGGGGAGATTAGCCCAACTGCTGACAGAACGATTTCCCTTGGTTGGACCTTGGGAATGGCAAACACTCATAT
TGGAACAAGCTTGGGGTGGAAGATTTAGGCCGTGTGAGCGTGTGTGAGTGAGTGGAACAAACTTTCTTGGAAACT
GGAGGGAGGAGATGAGGAGGCTTCGGGAAGTATTACTGATGGCTCATGGTTGAGAGAGCGACGTGGGGACCCAGC
TCGCCCCAGCTTTTGTCCCAGGTTCTCTTTGTCTGATGCTGAGGGCAGGGTGGGGTGTGGGACCACCACTCTTGT
TGGCCTGTCAAGTAGACCCTAGGACAGAAAATGGAAAGAAGGAAATGGCTCGGTGCTCTCAACTAGCAGAGAGAA
TTGAGGAGAGGTAAGGGTTCCTTCTGCAGGCCAGCCTGGGACTCCACAGCGCCAGCAGGAGTGACTTGGCCACAA
GACATTCCAGCCCCAGGGACTTTGCAGGCTTCATTCCCTGTCTGTGTCTTTTCCTTCTGGTGTGTTTTACAGACT
TCTGATGGGGAAGCTTCAAACTTGAGCAGGCCAGAGATGTCCTTACCAAATTGGAAAGGAAGGTGAAACTGTTCC
TTTCTTTAGCCAAAGAACCCTTCTCAAAGACGCCTCCAGAAATGGACAAAATGGCCTTCCCTTCGTTCCTTTCCA
GGCAATAATGACATCATTAGTGATGCAATTCTATTTGTCTTTCTCTTTCCTCTCTGTCCNNNNNNNNNNNNNNNNN
NNNTGCATTTATTTCAAAACTGTGCTATTCTTTTAAGAGGAGTGGAGGTGACCCCTTCGATGCTGCTGCTATCGG
GAGACAAGGTGCCATACCAATACGTGGGCTTGACTAATCCCAGGCCACCATGGGAGAGAGCAAAGCAGGGCTGCC
AGGAGTTCAGTTGCATCAAGGGCGTAGAGCACGCGGGGGCTGGGCTCGGAATAGCAGTACTTTTCCACTTTGATG
CCTTAGAACTCTCACTTCTCATCTCCACAGACCAGACTCAGTAAAATCTCAGGCCACTAGAGAATGGAAGGCGGT
GAAACAGGATTTAAATGCAAAAAAAACCTATTGGAGGCTTTTGGCACCGTGGCTCACTAGAGGGACCCAGCATAG
TAGAGGTTTCTCTTGTTGCAGCTTCTGAAAAGTTCAAAAAAGAACTCCAGGCCGTTCTTCCCTCAAACCCAGTGA
GAGTTTGCAGAGAAGTGCCCCCTGCAGGGCTCCCGTCCCAGAACACCAGCACCAGAGAGGGTCTTCCCGATGCCC
CCCGCTGGACTTGCCCAAGCCTCTGGGAGCCCCTCATCTCAGATCCCTGTGTTGAACATGACACTGACTGTCCCT
TATTTGTTAAAATTTGCAATATCTCTCAAGTAAATAATAGCCAACATTTGTTGAATGCTTTCATGACTCCCGGGC
TAAGGCCTTTATGAGCGTTGTCTCAAGGGGCCCCAACAGCCATCCCACAGGGAGGGGGATAACAGCCCCCATTTA
TAGATAAGGGAGCTGACCGGATGCTCTGAGAAGTGGCAGGTGTTGAAGGAAGGATAAAGCAGTGATGGGCCAGAA
TCCCCAAGGTTCCCTTTTTTGTTCATCAGGCCCTTCCTGAGATGTGATTTTTAATCTTTTAACTTTTTTTAATTA
ATAGCAATGCGTGGCCTCATATTTCTATGAACCATTTAGTGATACTCCCGCTTCCTGCATGCCACACACTGTGCT
GGGAATTGCTCATGGGTTGTCCTGTTTCATCTTCTCCGTAGCCCTGTGAGATCGGCAATATTAGTCCCCCTACAG
CCAAGGAAACTGCCCAGAGCCACACAACTCTTGAGGGGCGAGGAGGGCTTGAACCTGAGTCTGCCCAGCTCCAGA
ACTGAGCTTGCAGCCATTAGCCACAGCTGTCTCCTGCATGTCTGAGCAAAGAAAGGCCTTTACACAGCATCACCC
TGTGCCATCCCATGCACCGTGGGACTCAGCTAAAGGACTGTGCAAAGAGGGGGCTCCTGAGTTGGATTTAGGCAA
AAGGGGCAGAATTCGTTTGATTTTTAGAGAAAATCTCTGGAGAGTTTCTTTTGATTCATAGAATTCCTTTTAGAT
TTCTTTCCAGCATACCAACTAGCTTTAGTAGTGCTGCTACAACCAGCTCTTATAAGTAAGAGTGAAAAGTATTC
TTTTCTTCTTTAAAAAATAAGTTTTTCTTGCTTATAGTTAATTCTAGAAAGGCAATACTAAAGGTATATATTTTT
TTCAAAATGCTATTTTTTACTGCACTTGATAATTATCCTGACAGCTCTGATCTCTGTAATAGATTCACTCTTCAG

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FIGURE 1601D

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CTCTGGGCAGAACCAGAGGCAGGGTTCACACCAAATTTGTAAATACCATATGTGGGTCTGGTGTCCAGGAACTTT
TTTCTTTCTGTTAAAAAAAAGAACAAAAAAAGAACAAAAAAAAAGAAGTAGAGGTGGAAGAAAGACAAGACTTAG
AGGAACAAAAGAATGTTTTCTTTTGAGATACTCTTCTCAAAGAAATAGCAACAATTGTATAAACAGGAAAACCAG
CCAGCTTTCATGATAAAAGGAAGGCGTGTCTCTTGCCCTGGTATGAGATTAACAGAAATACAGATGCATTTTTAT
TTTGATTGAAAGATGGTGAGAATGTAGAAATGCTTAGGACTAGATTTTTAATTTTTTAAAATAACTATTATCATT
TATTATGAAATATTTGTTCAGTTGTTTTGAGTGGGTTTCTTGTCCCTTTTTTCATTTAAAACCTTCTTTGTTGAC
TGGCTCCAGGCTTGTTTGCCTAAATTCTTAGGTAGTTTACACAAGTTCTAGAATCTTTTAGAACTTTAACTCCAT
TGGAAGCAAACCTAACTAATCGGAGTTTGAGATCCTGGTTGGTTTCAATAGGTATTCTGGAATTCTGGCAGAACA
CCTAAAGATTTTTTTTTTTTTAGAAGGTTTTAGATACATTATCTTACACAAACTGTGACCTAATGGCAATAATT
ACCTCAAATGTGGGCATTCATCCTGGTTTTAGCCTTTTTTGAAATCATGTAGCCAGCTTGATCTTGGAATTTAAA
GACTATGAATTCTCTGTGGGCTGAAAATAATGATTACTTCATACCCCCGGTCATCGTTGCTTAAGTGAATTCTGA
AAATAGCTCATCTTTACAACAAAAATTAAACCAAGGAAGAGATTATTCTTTGTGTGTTGTACTCAAATGCGATGT
TCAAATGCACATGTTAAGTATATATGTTTTTAGCTACTGTAAAATGCTGTTAGCCTTCTAAGCTATCAAAACAGT
CACATTTTAAATGAGTAAACTAAACAATTGACTGTGGATACTTAAGCATATTTCTGGCTACGTTTTATAGTTAAA
GTGTTTTATAGTTTACATTTAGACTGGTACTTTTTAAAGAAAAGTTCTGTTTATAACTGACATCCGCAAACCCCA
GTGAATGCCTCTTAGTTGGAGGTTGTGTCTCCCCCAAGGCAAGTGTGTTGTCCCAGACTCTTCTGTAGTCCAGCA
TGCGCACTTCCCTCTGGATTATTACTTTCCACGTGAACTCAAGAGAACATGAAAGGCAATCCAGATGGAGGGAAA
AGGTGTGAGTCCGCAGCCCGGGCCAGATGCGAAGGTCTCATGCGTGTCGTCTAAACACTTGTCTTCAAGGCCTTC
TCTCTGACATCTTGGAAGAGTCATTGAGAACAGATAACCTGGTTCATTGATTTTTGTCTTGATTTGAATATTTAA
CTTATTAATAGATCCACTGATTTCCAGGCACCAGGCAGTAGAAGAGACTGGGATTCAGGTGACCATGAAGGCACA
GCTGCTACTTCTGGGCCGGGGGTGATATTTTGATCAGCGTTTTGTAGGGGAGGACCATATACCCCTATTCCCATG
GTCGCTGGCTGGGTTTTCCATATATCTGCTGTCATTTATTCGTTTTCCCCTTAAAAGCAAAATCAATGTAAAAGG
CTATGTTTACGTTTTACTCATTGTCCAGCTTAGACTCAAAGTCTAGTTCGGTGGGAGGGGGACCTTAGCATCCTC
TCAGAGATGGTCAGGGCTGAGCAGGAGGAGGCAGAGACAGAGGGGCAGCTCAGCCTGGTCCATTGAGACCCACTC
TAAACAGACATCATATTTGGAACAAGAAGATGCTTCGAGACAGGAATGGGCCCCACTGTCATGCAGAAACAGACT
GGGGGAATGGCAGTTTCCCTGAGTCTTGGTTTCTTTTATGTTTTCTCTTGTGCCACCACCAAACTGCAGAGGACC
TGCTGTGACCTAAAGGGCATTCCTTTAGCAGATAAGACCTTGAAAACTGCAAAACACCTGGGACCAGGGAGCTTT
TAAAAAATACAAAAAAATACCACATTTGCTTTTTCCCTGTGAACTGTATTGACAGCGTGTTCTTAGGACAGTCTT
TTGGTGGAAATGTTACTGTAAAATAGTTTTCATCTCACCCCTCCTAATCATACTCCCACTTTCCTGTTTGTGTGG
TGGTGTTGCTGTTTTTTCCTTTACATGAATTAACCAAATGAATTTTGTGTCATTGTTTTTGGGGCTTATATTTTT
AAAACATAGAAATTGCCTTTTGTTCATTTGAAAAGTAAGTATGTTGTATCTGAAAAAGGGCTCTGCCTCTGCTCT
CCCTCGCTTCCTTGTAACCAATCTCCAAACGAATCTCTCCTGGCACCGCCCCCTTCCTTATATAGGGTCACTGTC
CCCGGGGCCACCTCTGCCTCCACCCTGCTGTCACCACTGCCCTGGGCCAAGGCACCCAGGACTCCCAGAAAGCGC
GAGAGCCAGCAAGAAGGCCCCACTCAGCCTTGAGACTGGTGGTCACACCTCCCTGTCAGAGTCGCCTGCTGGGCT
GAAGGGGCAATGGATTGTCATTGTTGAAATTGTTTGGCTCAGGTTATAAGGAGGAACTTGGGAAGTAGAAAGTGA
CTTGACCATGTGCATCCTTGGTAGCTTCCTGTAACTAACAAATGGAACAGAGAGCACACCCCCGCCCCGCCCCAC
CCCAAGCAGATGTTCCCGTCAGCGCTGCCCTGAGTCAGTCGGTCCCCGTTTCTGCTCTCCTCCCTTTTGTGTTC
CTGCTCACTTCAAGCTTCTTCCATGGACTTTCCAGGGCACAGTCATCTCTAGCCCCCAAATCATCTCTTCATCCT
CTGTGTGTGCATTTTTTTAACCAAATGAAATAGACAAGAAAGTCATACTTTGGGCAGCAGAATTTCTAATTTAG
TAGAATCACTGATATAGAGATAGATGTTGATATATATGTTTGTGTATATATATCAAACCAAATTGGATAGGAGAAG
TATAGCTTTACAGATGAGGAGAAGGAGCTCTTTAGAGGTCGGAGTCAAGACTGGTGTCTTGGACGTGCATGGGCT
GTGTCCCAGGCCACTCCGCACACATGGGGCTGAGGCGTGGCGCCGGGCCCTTGTCATCCACCTCACCACGGCAGA
GCCAGCAGGCCCTGTAGGGTGCTGCTGCTGTCTCACTGGGTCCCAGCTTCAAGCGCATCAGTGGGTGACGGGGGC
AACAAATCAGAGTGACTGGAAGTTTCCATCCCGTTTTGCTTTGACCACGTGTACTGAGCTGCAGCCTCTGATACT
CTGTCACGTTTCCAAAAATGGTATCCATTAGGATAGAAAGAGAATGGATCTGCAGAAATGTTTACCTTTCAACTG
CTCATGAATTCAGGACACTGGATAGAAAGACTCACTCCCCAAAATGAGAACAGGGAAGAGGAGACCCGGCGACAC
TAAGTCACCAGGTCCAAGGAACGTGGCTCCCTCCCCAGGGTCATCTCACCTAGATCTTTCTCTCCCAGGTCATCT
CAGCTCAATCTCAATAACCCTATGAAAGCCCTGGTCTGTTGTGTTCCTTCACCGTACGGTTTCTGTAATAAAAAG
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FIGURE 1601E

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TGTTAATCCATGTTAATCTGTGTGAAAATTATTGCGTGCAACAGTATTTTCTCGTGTACCTCTTTTTCCTATGTG
AATTGTCCCTCTTTTTTATTTATAAATGTCTACTTTTGTTTTTTTAAAGACAAACCAATGTGTTGTAGACCTATA
TGTAACCTATTCCTTAGTCTCATATTATAGGTATGTTATAAGAATGGATATTTTACTTGGCTTTAGAATGTTTTA
CAAGAAAACTAATTCTTAACTGATCAAGTCCTTGCTACTAAAATGCTTGTGTTTTTCATCATGACGTCGTGTGCT
TCTAAATTAATCATTTTCGTTGTAGAAAAATGGAGTGAATTTATATTAGTCTTGGAAACTAATAATAGCATTGTA
AATTTATGAGATGATTTTAACAGAAAAAATATAGAAGAATATAGTTATTTTAATTGTAATATTACTAACTGTAGG
GTGAGAAAAAGGGGGGGGGGTCCCATTGTGGTGAACTATGTTATAGCTTGTTACTCATAGTTTCTTTTTGATCAT
TTTTTCGGTCTCCGAGGTGAAATGACTTATTAATTAAAATTTGTAAACTCACATATGCATATTGTATATGTGTAG
AAATGTAATCACACTTTGTCTTGGAATTACATTAAACTGTTTGAAATCACTGTAAAAAA
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FIGURE 1602

MAPVYEGMASHVQVFSPHTLQSSAFCSVKKLKIEPSSNWDMTGYGSHSKVYSQSKNIPLSQPATTTVSTSLPVPN
PSLPYEQTIVFPGSTGHIVVTSASSTSVTGQVLGGPHNLMRRSTVSLLDTYQKCGLKRKSEEIENTSSVQIIEEH
PPMIQNNASGATVATATTSTATSKNSGSNSEGDYQLVQHEVLCSMTNTYEVLEFLGRGTFGQVVKCWKRGTNEIV
AIKILKNHPSYARQGQIEVSILARLSTESADDYNFVRAYECFQHKNHTCLVFEMLEQNLYDFLKQNKFSPLPLKY
IRPVLQQVATALMKLKSLGLIHADLKPENIMLVDPSRQPYRVKVIDFGSASHVSKAVCSTYLQSRYYRAPEIILG
LPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGTKTTRFFNRDTDSPYPLWRLKT
PDDHEAETGIKSKEARKYIFNCLDDMAQVNMTTDLEGSDMLVEKADRREFIDLLKKMLTIDADKRITPIETLNHP
FVTMTHLLDFPHSTHVKSCFQNMEICKRRVNMYDTVNQSKTPFITHVAPSTSTNLTMTFNNQLTTVHNQPSAASM
AAVAQRSMPLQTGTAQICARPDPFQQALIVCPPGFQGLQASPSKHAGYSVRMENAVPIVTQAPGAQPLQIQPGLL
AQQAWPSGTQQILLPPAWQQLTGVATHTSVQHATVIPETMAGTQQLADWRNTHAHGSHYNPIMQQPALLTGHVTL
PAAQPLNVGVAHVMRQQPTSTTSSRKSKQHQSSVRNVSTCEVSSSQAISSPQRSKRVKENTPPRCAMVHSSPACS
TSVTCGWGDVASSTTRERQRQTIVIPDTPSPTVSVITISSDTDEEEEQKHAPTSTVSKQRKNVISCVTVHDSPYS
DSSSNTSPYSVQQRAGHNNANAFDTKGSLENHCTGNPRTIIVPPLKTQASEVLVECDSLVPVNTSHHSSSYKSKS
SSNVTSTSGHSSGSSSGAITYRQQRPGPHFQQQQPLNLSQAQQHITTDRTGSHRRQQAYITPTMAQAPYSFPHNS
PSHGTVHPHLAAAAAAAHLPTQPHLYTYTAPAALGSTGTVAHLVASQGSARHTVQHTAYPASIVHQVPVSMGPRV
LPSPTIHPSQYPAQFAHQTYISASPASTVYTGYPLSPAKVNQYPYI

FIGURE 1603A

```
GTATATGTTTCGTGAGTAATTTTTAAAAAATAAAACAGGTTAATAAGAAGATCCATTCCTTTGCATGTGATTGTT
ATAACATTCTTTCCCAGGGGAGTTCAATTTCAGCAACCTCAGAAATCCATACTTGATATTAGGAAACTGTAAATGT
AACACCTGAAATTATTATGTTCACTATTCTACATGAACCTTATGGAAATTCATGATTTATGTCTTTGTTTTTCTT
TTTCCAAGTATATGCAGGACTCCCCAACCTTGATTTTATAATGGTGACTGCATTTTGTAGGTGGAATCATTTCTA
CCGAAATCATTTTGAAACACAAGAATATTGATCAGTACTGTTTCACTCTGATTTAGTAAATCAGAAAGCCTCCCC
CTACCCCCAGCCCCCACTTTCACATACCTTCTGGGAGGTGCCTCAGTATAGACTTGGTATCTGTGAAGGACTGAG
TTCATGAATATGCACAGAAGCACTTAAACCATGCCTCTTATTTCTATAATATCTGAAAATGGCTTCATAAAAGTT
AAGTCAGGAGAACACTGTTTACATGACACTTCTTAACTCATTTTTAATGTTTATTTTTAATTTCAAAAACTTGTT
GCCTATTTGGTTTTCAGTACTGCATAACACTGACTTTCTTAAATTAGTCATAGTTGCAATAATTTACTTAAATTT
GGTAATGTCACATTTGGGTTGGGGTTTCAGTGGGAATAGTAACTTGCCGCTAGTGAGAAATGGCATTGAATACTA
AAGACTCAATATGAACAGGCTTTATAGACCCTTAGAGAAACTGTTGCCTTAATGTTTGGTGCAATTTCTAGTAGT
GCATAAGTGAATTTAGTCTTATGATAAGTAACTTTGAGCTGTTTTAGCTTAGTAAGAATTGTGGAAACCACATG
TTTATTGTGCCCATCATTTTACACAAAGAAAGAGGATTATATTATTTCTTCAAGGAAGTAGGAGTTTTCTTCC
TAAAAGTGCTTACATATTGTAGTACTATTACTTAAAAGTTATTTATGAAGTTGGGAGCCTTCTAGTTTGCCTGTG
TTGATGTATTTTGAAAACAAAATTGCAATAAAGGATGAGCTTCCATCGGTGTGTATGGTATACCAGATACAGATG
GTTGCAAGGAAACCTTTTCCCCCACTAGAATAGTCTATTAGTAACTGCTAAGTCCTAGCTTGCATTTTTGAAAAT
GCCTTTCTGCATGTTAGCACCCAGACTTTCCTTTGTCATATTCCTTTATAGCTACAACTTAACTGTAGCTTATCA
GAGAAGCTCTGTAGTCCTACACTGAAGTGTGTTCCCTTGGCTGTTCATATGGGGCTGGGTTTGGTTGAACTTCCA
TTCTGTATAAATGCTAGAACACAGTTACTACAGATTGATTCACAAACTGCATGTGCTGGTGCTTGAGGCAGCCAA
AATGGAATGCTGTGGAAAGCATATCTATATCTTAAAAAACACTCAGACAGGAGTTAAGGACAGCTTTAATAATTT
TTTTGTTTACCACTTAATCTTTATCAACTTTGATTTTAGTTAGGGCTTAGCTCATGGTTGAAGAAAAGTGGAAAA
TAACAAGTGCCCATTTAGGTTTGAAGAATCCAGAATGTTTTACCTTTGACTTTATGAGTTATAGAAGCTTGGCTT
TGCTCTAGGTTTCATGTTCCCAAATGAGCCATCTGTCAGTATATTCACTTAATTCTTACTAATTTCAGTTTCCTG
TAAAGGAAACAACTTACATATTGATGCTTAAATCCAGAAAGTGTAAAAGGTTTTCTTAAACTGTTAAAATATAGT
GTCTGATATAAAGGATGTAAGTTACTCAGCTTTCTGCTCCCTAAGCCAAACAGTGTTTGTCTTCAGTGTGAAATT
TAACTGTAAAAACTACTTGTAATGTCAAGAGATTATAGATCATATTATTAATAAAATGGACCTGGGTCTAATATT
TTTTTTTCTTCAAAGGGAGTGTGAAGCTGTTTATTCTTTTATTTGCATATGAGTTTTTCTTTTAGTTTTAGTTTT
TCATGTTCATATTTCCACTGATTTGAAAACACAAAATTTATTTTTATAATTTTGTTGCTTGTAGCATAATCAAGT
GCAAAATCAAGTGCAACCTACTTGTGACTAAATCTCTTTGGATTTATAGCTGAGGATATTGTTAGCTAGGTTTTG
TCAATCCCTAATCATTTTTTAAAATCAATGCTGTATTCCCAGGAGGCTTTGAGACTCCTATGAACCTGAAGCACT
CCCTTTTGAACCTTGGAAGATCCTCAAAGAGTGAGCACTCTTGTGCTCTTCTAATCATAATTAATTCCTTAACAA
ATCAGAGTAAGGACCACTGACATATAGAACACTCAAGCCAAAGAACCATCACAGAATTTAGTAACTTTAGTTCTG
TGAACATGAAAAGATTTCTTTTTTGGTTTCCAAAGGAGATTATTTATTTTTCCACAAGGAAAAACATCTTGCAGA
GACTCTGAATTCCAAATCTGAGTGAGAAAGAAAAGGAAAAAAATCTGTTTCATGGTGGATTTCTAAGCAACATAT
ATACATGTTTTTAAGACAACCTTTTGTTGGCAGTGTTTTTCCTGAACACCATATGCACCCTAGGAAACGTTTTTC
CTTTAATCTTGTTCACATATCAGAAAAGGACATGAAATGCTCATACTGGCATACAAGTTTCTATAAGTAGTTATT
TTTTGAGCTACTTATACTATATCCCCAAAAGCTCACAGTGCCTTGTTGGGATTTTTTTTTTCCATGAACTAGCCA
TTATTTTAAATGAGTGGGAGAGGGTAAGTCTTTAGACAGAGGTCATTCAGCAGTTCAAGACTATTCCTCTTCAAG
AACATGTCAGGAATTAAGCAGTTATATGTGGAAACACTGGTAATTCTTTCCACAGTGTTGTTTTGGATAATCTGT
TCTAGTATATTTAACTAATTGTATGGTGGACCTGTACTCTGATACACATCGAATCAGTCAATGGGATTTGTATGT
GCTTTTCCTTCCTACATTTTCATTCCTACTGCCCCAACCTAGTAGCCCTAAGTTGTGGCTTGGTGGGTTTGGCAC
TGAGCCTCAAGACACTCACTACATTCTTTCTGGATGTTTGCTCACAGGCTCCCTGAGGAGCAGAACCTGTGGAGC
TGGGGAGTGCGGGTGGTTTCTATTCCTAATATTGTGTGTCAGTCCTTTTTCGTGTGATGGTGCCTTCAGAATAAC
GAATATTTCTGTTCTGGACAATGATTAAATCTTATGAGAAATATATGTAGGTTATATTAATTCTTGTCCATTTTT
GCTAAGCCTGTGAAATACTTTGGCTCTGATACAACTTAACTTGAATAATATCTTATCCTGAGTCTTCCTCCAAGG
CAGTACATATTCCTGCCAGGACTGTAGTAATCCTTTGGGAACTACATGTGAGTAAGCACTTGTATGTAAGCCATT
ATACTGCTGTAACTAATGCATACAAACAATTCTTCTCTTTACATTTATAGTCTAAAAGGGGATATGCAGTGGGAA
GGAAAATTCCTGAGAGATTCCAGCATAGCTTTGTCAATTCCGACTGAGCCATACTGTTTTCCACAAGGGCTCAAC
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FIGURE 1603B

ACATAGTCAGTATTCCGTGCTTTCAGTGTGTGTTCAGATTCTCCTCTTACTGGTTTTCTTAGACTGTATTGTTCT
ATAAGCAAATGCCCATGTGTGATTTTTAAGATGTGCTGGGGAAAAATAAATCAATACCACAACGGAAAAATCACA
CATGGGCATTTGCTTATAGAACAATACAGTCTAAGAAAACCAGTAAGAGGAGAATCTGAACACACACTGAAAGCA
CGGAATACTGACTATGTGTTGAGCCCTTGTGGAAAACAGTATGGGCTACTAGGTTGGGGCAGTAGGAATGAAAAT
GTAGGAAGGAAAAGCACATACAAATCCCATTGACTGATTCGATGTGTATCAGAGTACAGGTCCACCATACAATTA
GTTAAATATACTAGAACAGATTATCCAAAACAACACTGTGGAAAGAATTACCAGTGTTTCCACATATAACTGCTT
AATTCCTGACATGTTCTTGAAGAGGAATAGTCTTGAACTGCTGAATGACCTCTGTCTAAAGACTTACCCTCTCCC
ACTCATTTAAAATA**ATG**GCTAGTTCATGG

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FIGURE 1604

MASS

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FIGURE 1605A

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AGCGGCCGCCAACGCCGCCCGGACTGGAGCCCTGACATTGCTGCGCTCGGGGGGCTCCAGGCAGCCCGTATCGGG
GCCTTTATTTCTCGTCGGCGGCGCCCTGCACCGCGCCTCGCAAAGCCAAACACCAGAGCACCCTAGAAGGTTTAA
CTAAAAGAATGCTCATGTTTGACCCAGTTCCTGTCAAGCAAGAGGCCATGGACCCTGTCTCAGTGTCATACCCAT
CTAATTACATGGAATCCATGAAGCCTAACAAGTATGGGGTCATCTACTCCACACCATTGCCTGAGAAGTTCTTTC
AGACCCCAGAAGGTCTGTCGCACGGAATACAGATGGAGCCAGTGGACCTCACGGTGAACAAGCGGAGTTCACCCC
CTTCGGCTGGGAATTCGCCCTCCTCTCTGAAGTTCCCGTCCTCACACCGGAGAGCCTCGCCTGGGTTGAGCATGC
CTTCTTCCAGCCCACCGATAAAAAAATACTCACCCCCTTCTCCAGGCGTGCAGCCCTTCGGCGTGCCGCTGTCCA
TGCCACCAGTGATGGCAGCTGCCCTCTCGCGGCATGGAATACGGAGCCCGGGGATCCTGCCCGTCATCCAGCCGG
TGGTGGTGCAGCCCGTCCCCTTTATGTACACAAGTCACCTCCAGCAGCCTCTCATGGTCTCCTTATCGGAGGAGA
TGGAAAATTCCAGTAGTAGCATGCAAGTACCTGTAATTGAATCATATGAGAAGCCTATATCACAGAAAAAAATTA
AAATAGAACCTGGGATCGAACCACAGAGGACAGATTATTATCCTGAAGAAATGTCACCCCCCTTAATGAACTCAG
TGTCCCCCCCGCAAGCATTGTTGCAAGAGAATCACCCTTCGGTCATCGTGCAGCCTGGGAAGAGACCTTTACCTG
TGGAATCCCCGGATACTCAAAGGAAGCGGAGGATACACAGATGTGATTATGATGGATGCAACAAAGTGTACACTA
AAAGCTCCCACTTGAAAGCACACAGAAGAACACACACAGGAGAAAAACCCTACAAATGTACATGGGAAGGGTGCA
CATGGAAGTTTGCTCGGTCTGATGAACTAACAAGACATTTCCGAAAACATACTGGAATCAAACCTTTCCAGTGCC
CGGACTGTGACCGCAGCTTCTCCCGTTCTGACCATCTTGCCCTCCATAGGAAACGCCACATGCTAGTCTGATTGC
CTCTGTGTCCTGCCTCAGCGTGACTCCCCACTCACCTGGCTCTCTCTCTGTCCTGCCTCCCATTATCTAACACAT
TTTTTACATGTACATTTAATTTGATTCAGCTGGTCTGAATCTCTGAATTTATATCATCCAAAACTTCCATATGG
TCAGTAGTAGATGTTCTCTAATCCTCCCTCTCCTTACCACGGGTCAGACCTAAAGAATGTGAACACTTTTTTTTT
TTTTTCTGGGGATGCTAAGCAAACCCTTCTTACAGATACGTTTAATGTAATAAGAACAAGGGAACATGTAAACTA
ACATAACCAATTGTCAGTTCTCCATGTATTCCTCAAAAGAATGTCAGAGTAAATGTATTAGAAATACAGTATCCA
GACTGCTAGTCCTTGCCAGAGACATTCTTACCTCTGCCCTGTGATAATATTTTATGCTTGACAGTGAAAACAAGT
GTGGCCCCTTGCACCGGTTAGCTAGAAGTACAGCCAGATTTCAAGCTAGTGCAGTCACCTCTTCCGTCATTCTTC
ACAAATCTTGTCAACCTGGATCTTAGACTTCATCTGAATCGAGTTCTTTGCCCTCCTTTGTGCCTGCAGCTCATA
TGGAGGTCTTTGCCACCAATGGGAGATGAGCCCAAACTTTCGATCTAGGTGGGTGATGTGTAGCAGTTCAAGGGA
AGGGTGCTGTGTTTTCATAGCATGGAGTCGGAGGAGAGGGCCATTTAGCAGGGGGAGCAGAAGAGGCAATTCCTC
CTGGGCTAGGGGTTGTCAATGAGGTTTCAACATTTGTTAGCTGTGTGCAGCATTCCCAGAGCTTCAGTCTCTGT
GCATACTCAGCTTTGTAGAACCATGCTGCAAAGCCATATACCGATGGGGTTATCCATGCAACTATCTCCATTCCT·
ACAATGTCCTTAATATGAGATCATCAAACATTGATAGTAGGGACTCCATGGAATATTTGCCCAGTAATGGTAAGA
AATCTTTCGGGTAAGAGTATGGATGGTTCTTCTTTTACCCAATCTGCTTATAGCTTTTTTTGTAAACAGGGAAAT
GTTGAGTGGTACTTGTATTCCCTTATCAAATTAATCACATAGCTTTTATACAGAAACTCTTCCTGTGTGAGCTGT
TAAGGTGCCAAATTGGCTGTCATTTGTATTCATGACACATACCATAAAGCATCTGCTAATGCTTTAATGGATTGA
TTCAATTAAGACCTGAGTGACACTATTTGTAAATATAACTAGTTGTGAAGCACACATACCTTTATTTTGGGAATT
TATGAGAAAATATAGAAAACCACAGATCAGGGATTCATATATGTAGCTCAAAAATTCCCAAAAGTTTACTGTTAG
AGTTGGCAATTTCCTATCACTATTTCAGTGTCAGAACAAACTGAAAATAATGGCTCGTGTTTATGTTGAAGATAA
ATAGCACCATTATTGGGGGAAGTTATTCAAAAGCAGGCTTTTGAGCACCATAGTCTAAATGCCAATAAAAATAAT
TCATACATAGAAATGTCATTGGTCCTGAATTTGAAGAAAGTGAGCAACAGTAGTTAAATGTGGGTGCATATAACC
AAATTCCCCTTCATCAAGAATGGAGGAGAAGAGAGAAGAATGAAATCCTGAAGATTCATCCCAGCCGCAACTCAG
GATCCAACACAACTTTAACTGGGAGGAATACATTGTTTGATCATTTTTAAAACATCTGTGAATGAGTGATTCCGG
AGGCCTGTGAATTGTGTGGGGAGCTTGCTTTGATGGCACTGTGTTAATAAAAGTTGTAGGGACTGTGCACCTAAG
AGGCTAAGAGGTCCCACTCATCCGCCCTGTGAACCAGCTGTAAAGAAATGTAGTTAAGAAATGCAAAGAAATGTG
TTATCTTGGCACTTGGGTTTGATTTTCCTTTTTTTAAAGCACTGCAAAACTTCTTTAGGATACTAAAACATCCTA
ATTGGGCTGTTTTTTTTGTTTTGTTTTGTTTTTCAGCTAAAGGCAAAGATAATTTTTTTTTTCAGCTGAAGTTTTTC
TTTTTTGCAACTATGACATGAATTGAGTGATAAAATGGCTCTTTGAAAAGTAGATATTGTCTGTATTGTAAATGC
TTAGTCATATTCATGGCAAAGTGTTCATTTCTTGAGATGGTTCTTTCACAACACACAAGAATCAAGATGGAACGC
AAGGAAAATCTTTTGTTTTGACCGAGGTAACCAGTTTATGTGTGTTCCAATCCATAGAGAAGTGGGGGAAAGGG
CGAGAAAGGATCAGATTGATCTGGGATCAGCTTTGAGCCTGAGTTCAGTGAATAGCCTCATGGGCATCTCATGGA
ATTGATGCATTTGCTGTGGCATATTTAAATTTTGTTCAAAAGATTTGAAGCAAGACCTTGCAAAGACTCTTAACA
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FIGURE 1605B

TTACTGTTCAGCTTGCTTAGATTGTGTTAACAGTTCATTTAACAAAGATCCGTTTTAACTCTGAACAAAAGCAAC
CCAGAGCGGCCATTCTCTATTCCCATGCTGGTCAATACGCTTTCATTACCAATTGGCCCTTACCAAACTTTTCTT
ATATATATATTTGTATTTTACTATGATAGTTGAGAAATTTAGCCTCTTAGTCATTTTTAGCTGTTATTGTGGAAG
ACCTCAAATACAAGATTAGATGCCCTTGAACATGTTTTAATGATGTGTGTCATGTTACTATCAATGGTGATTTCA
ATCGCAATATTTTAAATTGATGAGAATGATTTGTAAACATGAAGTTACTATTACGTAAATTCTGTTTGTTATAGA
GTTTCTTCAGTTGTTACCCAAGTGTCATCCTAGAGAAGTCAGAAGAATCAGAATCCATCGTATTTTAGAGTTATG
TGAATCTACATCATAAATGGGCATTAACATTCTAAATTGCTTGGTTTGGAGAATGTGTTAGCAGCATAGCTATAT
TCAACTAGGGAGATGCTAAATACACAGAAGTTTCAAGAGCCTTGGAACAGAATTACAGGGGAACTATATATGTAT
ATGTATATTTTATTAAACACCCATCTGCACTATCAGTATTGCACTAATGTGGAATTTGAAAGACTATTTTGCTGA
TACTGTATATATGCGCATCATTCCTGATTAGATTGTTGTAAAGACAATCTGAAAGATCTAAGGTTTTAAAATAAT
TTGGTTTGAAAATATACAGTTGTCTTGAAGGAATTGCTGTCATACATGAAGTTGCTCCGAGCTGTCTTTATTCTC
TTCTTGGTCAAGGTTAACAATTGCTAAATGATCGCAAATTCACCTAAACAATACATTTACAAAGCCATCTTTACA
TGCATTAAACGAGGGCTACAACAATATTGTTTTACAAATACTAGCACTTTTTTTTCTGTTATGTACTTAGTGTTA
·GAGGGTCAAAATAATCTTTCTGCTTAGCATCTCTTAAACCATACCTGCAAATATAGCAGGATTATTACATTTACA
GTACTTTAATACTTGTATAAACTATGCAGAAATTTTTAATAAAGTGTAATATATTTTATAAGCTAATAAGACTGA
ATGGGTAAAGGTTTTTAGCATGCGTTAGTATACTTGCAGATACTGAAACATTTTGGTAATCTTTCTTACTAAAGA
TGTGAATGTTTAATGTACCTTCTCTGTTTCTACTCTGTAGTCCAATGGGAATTCAGTAATGACATTTTGTCATGT
CAAACTGTGAACATAAATTTGTACTGTACAGTCCTCATATACTATATACAGTATGCAATATATATTATATACTTG
TTAATAAAACCATCAGAATATTAAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTC
GATATCAGC

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FIGURE 1606

MLMFDPVPVKQEAMDPVSVSYPSNYMESMKPNKYGVIYSTPLPEKFFQTPEGLSHGIQMEPVDLTVNKRSSPPSA
GNSPSSLKFPSSHRRASPGLSMPSSSPPIKKYSPPSPGVQPFGVPLSMPPVMAAALSRHGIRSPGILPVIQPVVV
QPVPFMYTSHLQQPLMVSLSEEMENSSSSMQVPVIESYEKPISQKKIKIEPGIEPQRTDYYPEEMSPPLMNSVSP
PQALLQENHPSVIVQPGKRPLPVESPDTQRKRRIHRCDYDGCNKVYTKSSHLKAHRRTHTGEKPYKCTWEGCTWK
FARSDELTRHFRKHTGIKPFQCPDCDRSFSRSDHLALHRKRHMLV

FIGURE 1607

TTTCGCAGGCCGATCCCCACTCCAACCGTTCCCTCAGCAACCCCAGGGGTGTCAGACGGGGCACCCTCCCACTGT
CTTCTCCAGCCAGCCTTAAAAACCCCAGAGACGCCAGCCTGGGAACGATCTCAGTATGGAATCTGAAGTCGCCTT
GTCAGCACAGACACCTCTGGGGTCCCCAGAAGACCTGTGGCAAAGTTCTCTAAACCGAACCTGGAGAGGGGAAGG
TTTTCAAGCAGGAACCACATAAATTCACCTAAAACTCACGCCTACACCCCTCTGTGATAAAAGATTTCTGTTTCT
TCTGTTGGAGACTGAATTTTCTCTTCAAGACTACAGTACTGTATCTGTCAATCTGTGGAAA

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FIGURE 1608

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CTCTTACAACATTGGCTGCCGGCGTGACTTTGACCGCTTCCCGGTGCGTTACCGGCAGCTGAACCCACCCGGCGC
CACGGGACTTTGACGCGTGCTCTGCGCTTGCCATGAGACTCCTGGGAGCTGCAGCCGTCGCGGCTCTGGGGCGCG
GAAGGGCCCCGCCTCCCTAGGCTGGCAGAGGAAGCAGGTTAATTGGAAGGCCTGCCGATGGTCTTCATCAGGGG
TGATTCCTAATGAAAAAATACGAAATATTGGAATCTCAGCTCACATTGATTCTGGGAAAACTACATTAACAGAAC
GAGTCCTTTACTACACTGGCAGAATTGCAAAGATGCATGAGGTGAAAGGTAAAGATGGAGTTGGTGCTGTCATGG
ATTCCATGGAACTAGAGAGACAAAGAGGAATCACTATTCAGTCAGCAGCCACTTACACCATGTGGAAAGATGTCA
ATATTAACATTATAGATACTCCTGGGCATGTGGACTTCACAATAGAAGTGGAAAGGGCCCTGAGAGTGTTGGATG
GTGCAGTCCTTGTTCTCTGTGCTGTTGGAGGGGTACAGTGCCAGACCATGACTGTCAATCGTCAGATGAAGCGCT
ACAACGTTCCGTTTCTAACTTTTATTAACAAATTGGACCGAATGGGCTCCAACCCAGCCAGGGCCCTGCAGCAAA
TGAGGTCTAAACTAAATCATAATGCAGCGTTTATGCAGATACCCATGGGTTTGGAGGGTAATTTTAAAGGTATTG
TAGATCTTATTGAGGAACGAGCCATCTATTTTGATGGAGACTTTGGTCAGATTGTTCGATATGGTGAGATTCCAG
CTGAATTAAGGGCGGCGGCCACTGACCACCGGCAGGAGCTAATTGAATGTGTTGCCAATTCAGATGAACAGCTTG
GTGAGATGTTTCTGGAAGAAAAAATCCCCTCGATTTCTGATTTAAAGCTAGCAATTCGAAGAGCTACTCTGAAAA
GATCATTTACTCCTGTATTTTTGGGAAGCGCCTTGAAGAACAAAGGAGTTCAGCCTCTTTTAGATGCTGTTTTAG
AATACCTCCCAAATCCATCTGAAGTCCAGAACTATGCTATTCTCAATAAAGAGGATGACTCAAAAGAGAAAACCA
AAATCCTAATGAACTCCAGTAGAGACAATTCCCACCCATTTGTAGGCCTGGCTTTTAAACTGGAGGTAGGTCGAT
TTGGACAATTAACTTATGTTCGCAGTTATCAGGGAGAGCTAAAGAAGGGTGACACCTCTATAACACAAGGACAA
GAAAGAAAGTACGGTTGCAACGGCTGGCTCGCATGCATGCCGACATGATGGAGGATGTTGAGGAAGTATATGCCG
GAGACATCTGTGCATTGTTTGGCATTGACTGTGCTAGTGGAGACACATTCACAGACAAAGCCAACAGCGGCCTTT
CTATGGAGTCAATTCATGTTCCTGATCCTGTCATTTCAATAGCAATGAAGCCTTCTAACAAGAACGATCTGGAAA
AATTTTCAAAAGGTATTGGCAGGTTTACAAGAGAAGATCCCACATTTAAAGTATACTTTGACACTGAGAACAAAG
AGACAGTTATATCTGGAATGGGAGAATTACACCTGGAAATCTATGCTCAGAGGCTGGAAAGAGAGTATGGCTGTC
CTTGTATCACAGGAAAGCCAAAAGTTGCCTTTCGAGAGACCATTACTGCCCCTGTCCCGTTTGACTTTACACATA
AAAAACAATCAGGTGGTGCAGGCCAGTATGGAAAAGTAATAGGTGTCCTGGAGCCTCTGGACCCAGAGGACTACA
CTAAATTGGAATTTTCAGATGAAACATTCGGATCAAATATTCCAAAGCAGTTTGTGCCTGCTGTAGAAAAGGGGT
TTTTAGATGCCTGCGAGAAGGGCCCTCTTTCTGGTCACAAGCTCTCTGGGCTCCGGTTTGTCCTGCAAGATGGAG
CACACCACATGGTTGATTCTAATGAAATCTCTTTCATCCGAGCAGGAGAAGGTGCTCTTAAACAAGCCTTGGCAA
ATGCAACATTATGTATTCTTGAACCTATTATGGCTGTGGAAGTTGTAGCTCCAAATGAATTTCAGGGACAAGTAA
TTGCAGGAATTAACCGACGCCATGGGGTAATCACTGGGCAAGATGGAGTTGAGGACTATTTTACACTGTATGCAG
ATGTCCCTCTAAATGATATGTTTGGTTATTCCACTGAACTTAGGTCATGCACAGAGGGAAAGGGAGAATACACAA
TGGAGTATAGCAGGTATCAGCCATGTTTACCATCCACACAAGAAGACGTCATTAATAAGTATTTGGAAGCTACAG
GTCAACTTCCTGTTAAAAAAGGAAAAGCCAAGAACTAACTTTGCTTACTGTGAGTTGACTGACTCTAATTGAATC
TGCGTGGTTTTGATACTTTGATGGATTCCAGTGGAATAAATTCAGGCTGCTGAAACAAGAAATTCTGAGCCCAGG
AAGCGGGCTCTTCTTTCTTCAAAAGAAGCCCTTCTTGTTCATATTCAGGAGCTTCTGTTATATTCAAAGGTAATT
CTATGTCTATCTCAACTCTATTGATTGGTTTTATAGTTTATTGAAAATCCTCAAATAAAATATAATTATTACTGA
AATATGTTAATATTTAAGGGGAAAAGAGACTAATTTCAGTTATACTTTTAAGCTTAGAATGTATGTTCATTTCC
AAATTTTGTATCATAAGAGTTTTCAACATAGAGAAAAGCTGAAAAAATGCAAAGAATAACCACATACTTTCCATC
TACCTTCCTTTGTTAACGGGTTGTTTATCATATAATAATTTGTTTTGTCATATTTGCTTTCACTGTCTATTATCT
GTTTAAGTCTCATAACTCTATTTTTAGTTTGCTGAAGACTTGAAAGTGAATCGCATATATCATGACACTTCTTGG
AGTGTCATTAATGGGCAGGCTTTTCTGTTGAAGAGTGGATTCCGTATGTTCTTCATAGAGAGTGTTTTTCAGATT
CTTCATTGGGATATTAAAATATTAGCCAAATTTCTCTCTGTTTTATATATGTCTGTTTATTTCAGTTTGTGGTTT
CTGCAAATTTGTAACTGCCTCTGTTTTAGGAGTATAAGTATTACTTCCTTGTGGTCTATTGTGAAGTAAAAAGTA
GACCCTTGCATATACTATTCTTGTTTGTGTTCATCTTAATGTTTTTGTACAGCTAAATCAAATGTAATTTATAGA
GTTAGTTTCATCAACCTAATGAATGCTAGTTAAATTTGAATTCCTTGGAATTTATCGTATATTGTATTCACTGAG
ATTATGAAGGGACAAATGTTAATCTTTTGTTTCCAGAAAAAGTTGGGCTTTCCCAAGCAGTTCTATTACCCGGTT
CAGAATTGCTTCATCCAAAAATCATCTGATGGTATAGATGGATCCTAGTCCTTTTCATTACCTGATGGTAGAAAT
AAAATAATTGATT
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FIGURE 1609

MRLLGAAAVAALGRGRAPASLGWQRKQVNWKACRWSSSGVIPNEKIRNIGISAHIDSGKTTLTERVLYYTGRIAK
MHEVKGKDGVGAVMDSMELERQRGITIQSAATYTMWKDVNINIIDTPGHVDFTIEVERALRVLDGAVLVLCAVGG
VQCQTMTVNRQMKRYNVPFLTFINKLDRMGSNPARALQQMRSKLNHNAAFMQIPMGLEGNFKGIVDLIEERAIYF
DGDFGQIVRYGEIPAELRAAATDHRQELIECVANSDEQLGEMFLEEKIPSISDLKLAIRRATLKRSFTPVFLGSA
LKNKGVQPLLDAVLEYLPNPSEVQNYAILNKEDDSKEKTKILMNSSRDNSHPFVGLAFKLEVGRFGQLTYVRSYQ
GELKKGDTIYNTRTRKKVRLQRLARMHADMMEDVEEVYAGDICALFGIDCASGDTFTDKANSGLSMESIHVPDPV
ISIAMKPSNKNDLEKFSKGIGRFTREDPTFKVYFDTENKETVISGMGELHLEIYAQRLEREYGCPCITGKPKVAF
RETITAPVPFDFTHKKQSGGAGQYGKVIGVLEPLDPEDYTKLEFSDETFGSNIPKQFVPAVEKGFLDACEKGPLS
GHKLSGLRFVLQDGAHHMVDSNEISFIRAGEGALKQALANATLCILEPIMAVEVVAPNEFQGQVIAGINRRHGVI
TGQDGVEDYFTLYADVPLNDMFGYSTELRSCTEGKGEYTMEYSRYQPCLPSTQEDVINKYLEATGQLPVKKGKAK
N

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FIGURE 1610

GGCACGAGGCCTTCGGCCACCCCCGCTGACC**ATG**GCAGTGTTTCATGACGAGGTGGAAATCGAGGACTTCCAATA
TGACGAGGACTCGGAGACGTATTTCTATCCCTGCCCATGTGGAGATAACTTCTCCATCACCAAGGAAGATTTGGA
GAATGGGGAAGACGTGGCAACGTGTCCTAGCTGCTCTCTCATTATAAAAGTGATTTATGACAAAGATCAGTTTGT
GTGTGGAGAAACAGTCCCAGCCCCTTCAGCCAACAAAGAATTAGTTAAATGC**TGA**AGAAGCCTTCAGGAATCCAA
ATCCTGAACATTTGGAATGAGCCCAGATAGAAATATCGAATGCAAAGCTACTGGCTTCACAGAGACAACCATTTA
TGATTTGCTGTTCTGTAAGAGTGTGGATTCTTTCTATCAACTGCTGATATCATCTTCAGGAAGCAAGTCCATAAC
ATGACATATCTGGATTTTGTGCTTAGAACCTTAAATTGGAAGCATTCTTAATTATGCATCTAAATTTAAAAGAAG
ATAATTTCAAAACAGTAAAAAAAAAAAAAAAAAA

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FIGURE 1611

MAVFHDEVEIEDFQYDEDSETYFYPCPCGDNFSITKEDLENGEDVATCPSCSLIIKVIYDKDQFVCGETVPAPSA
NKELVKC

FIGURE 1612

GGCACGAGGCCAGATACTACTGGCCATCAAGGGACAGAAGAAAAAGGCGCTCATTGTGGGGCACTGCATGCCTGG
CCCCCGAATGACCCCCAGATTCGACTCCAACAACGTGGTCCTCATTGAGGACAACGGGAACCCTGTGGGGACACG
AATTAAGACACCCATCCCCACCAGCCTGCGCAAGCGGGAAGGCGAGTATTCCAAGGTGCTGGCCATTGCTCAGAA
CTTTGTGTGAGTTGAGCCCAGGCCTCTGGTTGCAGGACTCGTGAATGGAGCAGTTCTGAGAACCACCCTTTTGCT
AAGGGAGCTTGGGAGCCACATGGCTGCTCCCTTCACACTGGGTAACAGTGTAGTATCCTGTGAGAGAATAAATGT
ATTCATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1613A

GCACCGGCCCGGAACACGCTAGTGGAGCGGAAGATTGCGGCGGCGGTCAGGCGGCCGCTTGCAGCCGGGACTTCA
GTTGGGCTGAGGCGGAGGAGCCGCCGCTTCTGACCTCGCTCTGGCTCCGGTGCGCGCGGCTGAGCGCGTGCGAGG
CCCCGCGCGTCGGGCAGGGGCGGCGGCGGCCACTGCGCGCCGCCCTGAGGAGCGCCCCAGCGGCGGCGCGACTGC
GGCTGAGGAGAGAGCCGGCTCCGGGCCTCCGCGTCCTCCTGCTCCCCCGGCCCCCCGCCTCCTCGGGGGGGCGGC
GGCGACTACGGACTGGTGACGGCCGGCTGCGGCTTCGGGAAGGACTTCCCGTAAGGGCCTCCTCAAGAAGGGCGC
GTGCTACGGGGACGACGCGTGCTTCGTGGCCCGGCACCGTTCCGCGGACGTGCTCGGGGTTGCAGATGGTGTAGG
AGGCTGGAGAGACTATGGAGTTGATCCATCTCAATTCTCAGGGACTTTAATGCGGACGTGTGAACGTTTAGTAAA
AGAAGGACGGTTCGTACCTAGTAATCCCATTGGAATTCTCACCACAAGCTACTGTGAGTTGCTGCAAAATAAAGT
CCCTTTGCTCGGTAGCAGCACCGCCTGCATTGTGGTGCTGGACAGAACCAGCCACCGCTTACACACAGCAAACCT
GGGCGATTCAGGCTTCCTGGTTGTCAGGGGTGGTGAAGTCGTGCACCGATCAGATGAGCAGCAGCATTACTTCAA
CACTCCATTCCAGCTCTCAATCGCTCCCCCTGAAGCCGAGGGAGTCGTCTTGAGCGACAGTCCGGATGCTGCTGA
TAGCACGTCTTTCGATGTCCAGCTAGGAGACATTATCCTGACGGCAACAGATGGACTCTTTGACAACATGCCTGA
TTATATGATTCTTCAGGAGCTAAAAAAGTTAAAGAATTCAAATTATGAGAGTATACAACAGACTGCCAGAAGCAT
TGCTGAGCAAGCTCATGAGCTGGCCTATGACCCAAATTATATGTCACCTTTTGCACAGTTTGCATGTGACAATGG
ATTGAATGTGAGAGGTGGAAAGCCAGATGACATCACCGTCCTTCTTTCAATAGTGGCTGAGTATACAGAC**TAG**CT
GAGGTGTCAAGTCCTGCCTTTCCTTTCATCATCCCAAATTTCCCCTGCCATGTGTGCTGATCCTGCTGGCAGGAC
CACATTTCTTTGCCACTGATCTCAATGGCCAGTGATGTAAGTCTTTTGCCTGTCTTCTTGAGACTCGTTGAGATC
TTTGTTGAGAACCACTACTATCATTCACTAGCTCATATCTGCCGGCAGCAATTGAAGAGATCCAATATTTGAAGA
TTGGCCTTCATTTCTCGATGTTCTTTCCATGATGGGGATGGAGGTGTTCAGTGCCACCGTGGCTGTTACTTTTCA
AAGTAGTTGAAGTATTGAAAATGAGTAATGTTGGTAAAGTGAATTCAAAATCCTAGTATGCTAAAGGGATGGTAC
AAGTCTAACACAAATTGTACGTAATGATACATCTACTAGAAACATACATTATTCATCAAAAGAAATGTTACATGT
GTACTCCACAGGCATAGTCTTTGTTATGATGATTGGTGTGGCTTTATGTCTTTGTTATAAACTCCTATTTTTCAG
GGGCTTATGATTCTGCTCTAAAACATTGCTCTGGGTTATACAGTTTTGATCCCAAAAGCTTTTTTGTTACAAATC
GGGAGAAAAATCCATTTTAGTTCTATGGATGGAAATATTTCATGCTTTTAAAAAGATGTTTGTGTTCCTGTGGTT
AAAGTTTTGGCAGTTTATTGATTAGTCCAAATCACAGGCTAAGGCCTGATCTCCAGGAGGGGTAGGGGAGACACT
TTACCAGTATTTTTTTATGGAAATAATACTCAAGGTTGTAAAACCCCTCAAAGCCTAGAAATTTAATTGTTATGG
CTGAAATTCCTCCTAGTTGTCTGATAGAATGCCCCTGAATGGGAACTCTAGGTCCCAAGGCCTGAAGGGTTGAGA
ACAGACAGCTGTAACTTTGAATTTTGTTGGCTTTCAGTGGTCATGCTACCTACCCATACTCGTACTCTCAGACCT
TTTATTAGTAGCCTTGCTTTCTATAGAGCATGCACCAAATCCAGTGAGTCCATGTGGAGAGAGCACTGTGTGCGC
AGCGGCAGCAGCACAGACGTCCATGAGGAAAACTCCCAGTGATGATCTGACATTTACAATTACCCCACATGGAAA
TTTAGGGGTTTCTGAATCAAGCTTAATGTTTACAGTTTCCAAATAGCCATTTGCAGTGTATAGTTTCCTTACAA
AACTACCCCGCATTCAGTTTTCACATTATCTGCAAGCTGAAACTTATTTTTAAGTTTTGTGTACAAGTTGACTGC
TGTAAAGATATATATTTTTGGGTCAGTTTTTTTCCTTCATTAACTTGGTGGTAGAAAAAAATATATACTTAGAAA
TCCTTAAATTAAAGCCATGTTTTATATATAAGTCAGGTAACATTGGTGTATAGATGAGAATGCAATTAAACCTGA
TGAGAATCTACTTGAGAATATAGAAAGTCTTTCTCTAAAGGAGATACTGACTCCCTGGTTTATTGCATTAAAATT
TATGTTTGAGGTTACCTCAACTTGTTTTAAAAGATTTTGTTTTGTGAATTTGTACTGTATATTTGAGTAACTGTC
AGGCTTTTATTTAAAATTGTTTAACATGTACCATGTACATGTCATTACTATATTTCAATGCATCATGCTTGTAAC
AGGCATTTCATTTATAATAAGAATGAGTTATTCATTTGTAAGCCGTTCAGTAATTTATCTACTATTCCTAAATTG
GCATAATGTTAGATAATCTATTTTGAATCACCTTTAATTACATGTCAGAATGCCTTAACTACCCTAACTTGACAA
AACAGAATTCTTTGGTAGACGCGGTGGGGGCGGGGTGGGGGGTCTGGACGGAGTCTCTATTTAAGGAGAAATCAT
CATGCTATGATAAAACACAGAAGCATGAGTGGCAAGTGGCGGGGTATTTATTTTGCACAAACTATTTGCAGTCTC
TGTGTATTTAAAAAGTAAAGAAAGTTGCATCCAGAAGGGTTTTGTTAGAATGAATACATTTATATTAGGACTGAC
AACTTCAGCTCTTTTGTTTAGGTTTTCAATTATTTTTGGTAAGAGTATGTAGCCTTATGATCTGGATATATTTTG
CATTCATTTTCCAACGCCTACATTTAATTCCTGGTAAGAGCAGTGCTCGTCAAGTTTCTGGTTTTTCTCTGCTCT
CATTTAACCCGTCAAACACAATCTTTGTAAAGCTAGATTGGTGGTGTTTTATACAACTTATTTACTCAGCTTACC
TTTTTGAGAAACGATTGTTAGAAATTGACGATGTGTTTGTTCCAGTGATACTGAAAGTAGTGGGGGCAAGAATTG
AGTTTCACAGTGGAATTGGCTTTGGATCTGGCCTATAGATTAGTGACATAAAATATTTTCTCTATTTTCCCCTGT
TCTTTTTGTGTTATGCACTTAATTTTATGACTGCCGGGGGGGGTCAGCTGGAGTGCTGCTTAACAAGTATCTCTCC

FIGURE 1613B

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TACTCTCAGTGGTCAGAGGCTGTGTTGGACCCATAGTAGAATTTTCCAGGTCACAGACCCAAGCTTCCATGGGTT
GTTACTGTGCTGTACCACTTGGTGGGTCTGATTCTGAACCTGATGTGTGTGTTAATTATATTTTAAGCAACACAC
ACGACACACACACGCCTCATGTAATGGACTTTTATAACAAAAGAAAAAATTTGGATTTCTAATTTACAAATGGCA
AATTATTTATCCCTCTCTGGATGCACCAAAGACCAGTAAAGTTTATAGCTTTTCCATCTATATTTATAAAGCAAT
ACTGTATTATAAAAATCAATATTTTTATCACATGCTTGAAATTTTTATTTTGTTGTTTTAAAATGTGCACTCTAA
ACATATCAGAACCTTATTTCTTCCTATGAACTTAAGCTGCCTGCGCACAAAAAAAAAAAAAATTTACCAAATGGA
GATGCAGTAGAGTCCATAGGCTCTAAAAACTAAAAGAAATGGGATGCAGGGGGAACAAGTTATTTGTCCTGAGTT
ACTGTACTTGCTTGACATGGTTGTTGGGTACTAAATCACAAAGAATCCATTCCAGGTATGCATGTCTGGGGGTT
GGGCTGTGTCTAGATTAGAAACTGGGTTTCAAGCTTTGCATGATGGGAGAGCGTCCTCTCCTCTATCAGCTGCGT
GTGTTCTGGATAGGACAGTAGCCCGGAGATGGAAACCACCTTCAGTACCATTAGCCCACCATACCAAGTAACAAG
TTAGGCAGGAATCGTGGGAATTTATTGAGTCAGCTTTGAGTGTTTGAGAGAATGTAAACAAGATTGGCTCGAATT
GTAAACGTTTGTACTTTGGATGAGTTCATGGTTCTTTAGGTCACCTTAATACCAGCTATCTTTGGTAGAAGCTAC
AGCATTCAGTTTCTCTGGAAACTGTATCACATTTTTGCATTTAAAAATTTTACAGTATCAAAAAACCAAAATCT
GCTTATGAAACAAAACATGAAGCAGGACATATTTGGATTCTATTTATTTAAAATTAAATTCTTTGCAAAATTGAA
CTTCTCAACTAAAACGTGTCCATGTCAGAATTTTAACTGTTAGCAGGTAGTTTGTGGCAAAGATGGCTAAATAAT
GAAGCAAATTAGAATCTGTGTGTATACTAATGAGCTGCTTTTTTTCTGTTGAGACTATCATTATTTGTCTTATTA
CCCAAGAGGCAATTACCTGAATTTGGATGTCTGAATTATAACTTATGCAGGAATAGTTCTGTAAATACATTTAAA
TAAACTGTAAAGATATTTAATAAATATAGTATTTATACTAATCTGTGTGCTTCTTTTGGTTTGAATAGTAACTAA
ATGAGACACCAGCCCTTGACATTGAGTTTGTTGGTCACTATCAGGTCCTCATTCCAAGCCTCCTAGTCATTCTA
GCACTGATTATATGCTGCTACTTTAACTGGCTCCAGCTGCTTCACTACATCAGTTT
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FIGURE 1614

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TGPEHASGAEDCGGGQAAACSRDFSWAEAEEPPLLTSLWLRCARLSACEAPRVGQGRRRPLRAALRSAPAAARLR
LRREPAPGLRVLLLPRPPASSGGRRRLRTGDRPAAASGRTSRKGLLKKGACYGDDACFVARHRSADVLGVADGVG
GWRDYGVDPSQFSGTLMRTCERLVKEGRFVPSNPIGILTTSYCELLQNKVPLLGSSTACIVVLDRTSHRLHTANL
GDSGFLVVRGGEVVHRSDEQQHYFNTPFQLSIAPPEAEGVVLSDSPDAADSTSFDVQLGDIILTATDGLFDNMPD
YMILQELKKLKNSNYESIQQTARSIAEQAHELAYDPNYMSPFAQFACDNGLNVRGGKPDDITVLLSIVAEYTD
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FIGURE 1615

GGGCTTATGAGGTCAATTGGAAATAAGAACACCATTTTACTGGGTCTAGGATTTCAAATATTACAGTTGGCATGG
TATGGCTTTGGTTCAGAACCTTGGATGATGTGGGCTGCTGGGGCAGTAGCAGCCATGTCTAGCATCACCTTTCCT
GCTGTCAGTGCACTTGTTTCACGAACTGCTGATGCTGATCAACAGGGTGTCGTTCAAGGAATGATAACAGGAATT
CGAGGATTATGCAATGGTCTGGGACCGGCCCTCTATGGATTCATTTTCTACATATTCCATGTGGAACTTAAAGAA
CTGCCAATAACAGGAACAGACTTGGGAACAAACACAAGCCCTCAGCACCACTTTGAACAGAATTCCATCATCCCT
GGCCCTCCCTTCCTATTTGGAGCCTGTTCAGTACTGCTGGCTCTGCTTGTTGCCTTGCTTATTCCGGAACATACC
AATTTAAGCTTAAGGTCCAGCAGTTGGAGAAAGCACTGTGGCAGTCACAGCCATCCTCATAATACACAAGCGCCA
GGAGAGGCCAAAGAACCTTTACTCCAGGACACAAATGTGTGACGACTGAAATCAGGAAGATTTTTCTATCAGCAC
CCAGGTCTTAGTTTTCACCTCTAGTTCTGGATGTACATTCCATTTCCATCCACAGTGTACTTTAAGATTGTCTTA
AGAAATGTATCTGCATGAACTCCGTGGGAACTAAAGGAAGTGGGAACTTAGAACCAGACAGTTTTCCAAAGATGT
TACAATTTCTTTTGAAAAACCCTTTGTTTATTAGCACCAATTTCTCGCCACTAAGCTATTTGTTTTATTATACAT
CCTTTAATTAAAAACTATATATGTAACTTCTTAGATATTAGCAAATGTCTCTGCTACCATTCCTTAAGGTGTTG
AGCTTTAACTCTATGCTGACTCAGTGAGACACAGTAGGTAGTATGGTTGTGGACCTATTTGTTTTAACATTGTAA
AATTTTGAGTCAGATTTTAATATTGTAAAATCTTGGGTCAAATAATTCAAAGCCTTAATGCAGATGCACTAAAAC
AAAGAAATGGTAAATGAATTGTTTGCATTTAAAAAAAAAAACTCTTAAGAAAACTGTACTAAATCTGAATCATGT
TTTGAGCTTGTTTGCAGTACTTTTAAACATTATTCACTACTGTTTTTGAAGTGAGAAAGTATCAGCCATTTAGCA
TTTAAGTTGGGGTATTTAGAGCCTGTAATCTAAATGCTGGCTCAAATTTATTCCCCAGCTACTTCTTATACCACT
ATTCTTTTAATGTTTGCATAATCATAAGCACCTCAACACTTGAATACATAATCTAAAAATTATATAGTAAAGCTG
GTAGCCTTGAAAATGTCAGTGTGATATCTATTATGTAGATAAATATATATAGTGGCCTTTCAGGACTGTCACAGT
AACACTTTATTTACAGAGCTAATGTTTGTCCTAAATTTTCAGGACCCTAGAGGAGAGCTTTATACAATTACCGAT
GTGAATTTCTCTAAAGTGTATATTTTTGTGTCCAGTTATATTATTTAAAAAAGTGTTACTTTGTAAAAATTGTAT
ATAAAGAACTGTATAGTTTACACTGTTTTCATCTCGTGTGTGGTTATTGCTTAATGCTTTTTAAACTTGGAACAC
TCACTATGGTTAAATAAGGTCTTAAAAGAAATGTAAATATTCTGTTAATAAAGTTAAATATTTTAATGATTTTTT
TTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1616

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TCATGGCCGGCTCCTACCCTGAAGGTGCACCTGCAATCCTCGCCGATAAGAGGCAGCAGTTCGGAAGCCGGTTCC
TGAGCGATCCGGCGCGGGTCTTCCACCACAATGCCTGTTGATTATGAGATCAATGCCCACAAATACTGGAATGAC
TTCTACAAAATCCACGAAAATGGGTTTTTCAAGGATAGACATTGGCTTTTTACCGAATTCCCTGAGCTGGCACCT
AGCCAAAATCAAAATCATTTGAAGGATTGGTTCTTGGAGAACAAGAGTGAAGTATGTGAATGTAGAAACAATGAG
GATGGACCTGGTTTAATAATGGAAGAACAGCACAAGTGTTCTTCGAAGAGCCTTGAACATAAAACACAGACACCT
CCTGTGGAGGAGAATGTAACTCAGAAAATTAGTGACCTGGAAATTTGTGCTGATGAGTTTCCTGGATCCTCAGCC
ACCTACCGAATACTGGAGGTTGGCTGTGGTGTGGGAAACACAGTCTTTCCAATTTTACAAACGAACAATGACCCA
GGACTCTTTGTTTATTGCTGTGATTTTTCTTCCACAGCTATAGAACTGGTCCAGACAAATTCAGAATATGATCCT
TCTCGGTGTTTTGCCTTTGTTCACGACCTGTGTGATGAAGAGAAGAGTTACCCAGTGCCCAAGGGCAGTCTTGAT
ATTATCATTCTCATATTTGTTCTTTCAGCAATTGTTCCAGACAAGATGCAGAAGGCTATCAACAGGCTGAGCAGG
CTTCTGAAACCTGGGGGGATGGTACTTCTGCGAGATTACGGCCGCTATGACATGGCTCAGCTTCGGTTTAAAAAA
GGTCAGTGTCTATCTGGAAATTTCTATGTGAGAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGAGGAACTG
GACACGCTTTTCACCACTGCTGGACTGGAAAAAGTTCAGAACCTGGTGGACCGCCGACTGCAGGTGAACCGAGGG
AAGCAACTGACAATGTACCGGGTTTGGATTCAGTGCAAATACTGCAAGCCCCTTCTGTCCAGCACCAGCTAAGAG
GCACCTGCTGCCAACACGATGCAAGCCCGTTGTGTTTCCGAGCTTTTTTTAAAAAAAAAATTTGTAGCACCGGGCA
TGGTGCATGCCTGTAATCCCAGCCACTCAGGAGGCTGAGGCAGGGAGGATCCATTGAGCCCAGGAGTCCAGCCTG
GGCAAAATAGCGAGAGACCCTGAATCTGAAAGTAATGATAAAATAAAAAGAATATAAATGAGGTCTCGTTGATGC
TGGACAATTCAAGAATTCAGACTTGAACCTTAAACCTAGGAAAAGTTACTTTGTATCAGGATTCTAACAATTATG
CTTCATATTTGTGAAGTCCTTTAAAACATAATTTTCTCAAGTTCTTTCTTTGAGACCTCAATCTGTCTTAGCATT
TTGTAACTAATAACTGAAATTTTATTCAAAGGAATTGTAAACCTTAAACCACCAATTTATTTCCATGTGAAAAAG
TGTTATATATGACAAGTGTTTTTTGATTGTAATTGCGTTAAATCTTTTGAGAGTGTAAATGCCGGGCTAGGCAAT
TGCAGTTAATACATACAGGGGTTAGTGAAGGGCTTATTAAGTTGTAGGGGAAGCAAGCTGGGAAGAATCAGATCA
GATATTTTCCTGAC
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FIGURE 1617

MPVDYEINAHKYWNDFYKIHENGFFKDRHWLFTEFPELAPSQNQNHLKDWFLENKSEVCECRNNEDGPGLIMEEQ
HKCSSKSLEHKTQTPPVEENVTQKISDLEICADEFPGSSATYRILEVGCGVGNTVFPILQTNNDPGLFVYCCDFS
STAIELVQTNSEYDPSRCFAFVHDLCDEEKSYPVPKGSLDIIILIFVLSAIVPDKMQKAINRLSRLLKPGGMVLL
RDYGRYDMAQLRFKKGQCLSGNFYVRGDGTRVYFFTQEELDTLFTTAGLEKVQNLVDRRLQVNRGKQLTMYRVWI
QCKYCKPLLSSTS

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FIGURE 1618

CATGCTGAAAGCAGGGCGGGACCGGGGCGGTCTTCCAGCAGGGAAA**ATG**GCGCTGGCCATGCTGGTCTTGGTGGT
TTCGCCGTGGTCTGCGGCCCGGGGAGTGCTTCGAAACTACTGGGAGCGACTGCTACGGAAGCTTCCGCAGAGCCG
GCCGGGCTTTCCCAGTCCTCCGTGGGGACCAGCATTAGCAGTACAGGGCCCAGCCATGTTTACAGAGCCAGCAAA
TGATACCAGTGGAAGTAAAGAGAATTCCAGCCTTTTGGACAGTATCTTTTGGATGGCAGCTCCCAAAAATAGACG
CACCATTGAAGTTAACCGGTGTAGGAGAAGAAATCCGCAGAAGCTTATTAAAGTTAAGAACAACATAGACGTTTG
TCCTGAATGTGGTCACCTGAAACAGAAACATGTCCTTTGTGCCTACTGCTATGAAAAGGTGTGCAAGGAGACTGC
AGAAATCAGACGACAGATAGGGAAGCAAGAAGGGGGCCCTTTTAAGGCTCCCACCATAGAGACTGTGGTGCTGTA
CACAGGAGAGACACCGTCTGAACAAGATCAGGGCAAGAGGATCATTGAACGAGACAGAAAGCGACCATCCTGGTT
CACCCAGAAT**TGA**CACCAAAGATGTTAAAAGGATAACTTCACAGTAAATCATTTCTCCTGAAATAGAGGAAGATT
CTTTACGTTGTTGTGCTTGTTTTTAAATCATCAGTATAGTTTAACACATTCTTTCTAAGCAGTTTTGTGTGGGAT
AATTTGAAGAATATATTATGAGTAAACTCCGAAAATTTTGTTTATCCAAAGGCTCAATGGATTATGTTTCTATTA
TATACAAGGTTTTAAGTAAACATAAAATTTCCAGAACAAAAATAAAAAATTTAAAATTCATAGCAAAAAAAAAAA
AAA

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FIGURE 1619

MALAMLVLVVSPWSAARGVLRNYWERLLRKLPQSRPGFPSPPWGPALAVQGPAMFTEPANDTSGSKENSSLLDSI
FWMAAPKNRRTIEVNRCRRRNPQKLIKVKNNIDVCPECGHLKQKHVLCAYCYEKVCKETAEIRRQIGKQEGGPFK
APTIETVVLYTGETPSEQDQGKRIIERDRKRPSWFTQN

FIGURE 1620A

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CTCGGGCAGAGCGCTAGGGCTCCGAGCGAACCAGCGAGCGAGCGAACGAGCGGCGCTCGGCGGGGNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGCGCGGCCGGGCGAGGCGGGCCCGTCCGGGAGCGGGCTCCGGGGAAG
GGGTGCGGGTCTGGGCGCCGGAGCGGGGAGCGGGGCCGCGTCCCTCTCAGCGCCAGCTCTACTTGAGCCCCACGA
GCCGCTGTCCCCCTGGCGCGCTCGGGGCCGCGGGACGGGCGCACGCCGCCTTCTCCTAGTCAAGTATCCGAGCCG
CCCCGAAACTCGGGCGGCGAGTCGGCCACGGGAAGTTTATTCTCCGGCTCCTTTTCTAAAAGGAAGAAACAGAAG
TTTCTCCCAGCGGACAGCTTTTCTTTCCGCCTTTTTGGCCCTGTCTGAAATCGGGGGTCCCCAGGGCTGGCAGGC
CAGGCTCGCTGGGCTCCTAATCTTTTTTTTAATTTCCAATTTTTGATTGGGCCGTGGGTCCCCGCTGAGCTCCGG
CTGCGCGCGGGGGCGGGAGGGCGCGCGCAGGGGAGGGACCGAGAGACGCGCCGACTTTTTAGAGGGAGGGATCGG
GTGGACAACTGGTCCCGCGGCGCTCGCAGAGCCGGAAAGAAGTGCTGTAAGGGACGCTCGGGGGACGCTGTTCCT
GAGGTGTCGCCGCCTCCCTGTCCTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGCGGC
GCGGCCGGCGGACGAACGAGCGCGCAGCAGCCGGTGCGCGGCCGCGGCGAGGGCGGGGGAAGAAAAACACCCTGT
TTCCTCTCCGGCCCCCACCGCGGATC**ATG**TACCAGGATTATCCCGGGAACTTTGACACCTCGTCCCGGGGCAGCA
GCGGCTCTCCTGCGCACGCCGAGTCTACTCCAGCGGCGGCGGCGGCCAGCAGAAATTCCGGGTAGATATGCCTG
GCTCAGGCAGTGCATTCATCCCCACCATCAACGCCATCACGACCAGCCAGGACCTGCAGTGGATGGTGCAGCCCA
CAGTGATCACCTCCATGTCCAACCCATACCCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCCTGGCCTCTGTCC
CTGGACACATGGCCCTCCCAAGACCTGGCGTGATCAAGACCATTGGCACCACCGTGGGCCGCAGGAGGAGAGATG
AGCAGCTGTCTCCTGAAGAGGAGGAGAAGCGTCGCATCCGGCGGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCC
GGAACCGACGCCGGGAGCTGACAGAGAAGCTGCAGGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTCAGGCCTGC
AGAAGGAGATTGCTGAGCTGCAGAAGGAGAAGGAGAAGCTGGAGTTCATGTTGGTGGCTCACGGCCCAGTGTGCA
AGATTAGCCCCGAGGAGCGCCGATCGCCCCCAGCCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGG
GCGCTGTAGTGGTGAAACAGGAGCCCCTGGAAGAGGACAGCCCCTCGTCCTCGTCGGCGGGGCTGGACAAGGCCC
AGCGCTCTGTCATCAAGCCCATCAGCATTGCTGGGGGCTTCTACGGTGAGGAGCCCCTGCACACCCCCATCGTGG
TGACCTCCACACCTGCTGTCACTCCGGGCACCTCGAACCTCGTCTTCACCTATCCTAGCGTCCTGGAGCAGGAGT
CACCCGCATCTCCCTCCGAATCCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACT
CCTTGAACTCCCCCACTCTGCTGGCTCTG**TAA**CCCAGTGCACCTCCCTCCCCAGCTCCGGAGGGGGTCCTCCTCG
CTCCTCCTTCCCAGGGACCAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGA
GCTTCCTGGCTCTGGGGGACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTTGATCTCTTAGAAGCC
ATGGGACCTCCTCCCTCATTCATCTTGCAAGCAAATCCCATTTCTTGAAAAGCCTTGGAGAACTCGGTTTGGTAG
ACTTGGACATCTCTCTGGCTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCCTGTCCCTTTGTTACCATACTGT
CTCTGGAGTGATGGTGTCCTTCCCTGCCCCACCACGCATGCTCAGTGCCTTTTGGTTTCACCTTCCCTCGACTTG
ACCCTTCCCTCCCCCAGCGTCAGTTTCACTCCCTCTTGGTTTTTATCAAATTTGCCATGACATTTCATCTGGGTG
GTCTGAATATTAAAGCTCTTCATTTCTGGAGATGGGGCAGCAGGTGGCTCTTCTGCTGGGGCTGACTTGTCCAGA
AGGGGACAAAGTGCAATACAGAGCCTTCCCTACCCTGACGCCTCCCAGTCATCATCTCCAGAACTCCCAGCGGGG
CTCCCTGAGCTCTCAAGGAGATGCTGCCATCACTGGGAGGCTCAGAGGACCCTTCCTGCCCACCTTCGGAGACGG
CTTCTGGAGGAACGGCTTGGCCAGAAGACAGGGTGTGAGTGAGACAGTGGGGCACAGGTTGGGTTTGCCAAACGC
CTAATTACCAGGCCAGGAAGCATGCCAACAAAGCCACACGGGTGTCCTAGCCAGCTTCCCTTCACCTGGTGTCTT
GAGTAGGGCGTCTCCTGTAATTACTGCCTTGCCATTCTGCCCCTGGACCCTTCTCTCCGGACCAGGGAGGCGTCC
.CTCCCTAGGAGCCACACATTATACTCCAAGTCCCTGCCGGGCTCCGCCTTTCCCCCACCCTGGCTCTCAGGGTGA
CGCCACCCACAGAGATTTAATGAGCGTGGGCCTGGACCTTCCCCAGATGCTGCCAGGCAGCCCCTCCCCAAGCCT
CAAAGAAGCATTTGCTGAGGATGGAGAGGCAGGGGAGGGAGGCGGGAGGCCGTCACTGGAGTGGCGTCTGCAGCA
GCTGCTGCCCCAGCACCCGCTCAGCCTGTCCTGGCTGCTCACCTCCCCGCAGGGCACCGGGCCTTTCCTGCCCTC
TGTGGTCATCTGCCACCTGCTGGATCAAGTGCTTTCTCTTTTACACTCCCCTGTCCCCACCCCAGTGCACTCTTC
TGGCCCAGGCGGCAAGCAAGCTGTGAACAGCTGGCCTGAGCTGTCGCTGTGGCTTGTGGCTCATGCGCCATTCCT
GGTTGTCTGTTGAATCTTTCTGGCTGCTGGAGTTGGAGATAGGATGTTTTGCTTCCCACTGCAGGAGAGCTGCCC
CCTTTCACGGGGTTGGGGAAGGGTCCCCCTGGCCTCCAGCAGGAGCACAGCTCAGCAGGGTCCCTGCTGCCCACC
CCTCTGAGCCTTTTCTCCCCAGGGTATGGCTCCTGCTGAGTTTCTTGTCCAGCAGGGCCTTGACAGGAATCCAGG
GAGTAGCTCCTGGCCAGAACCAGCCTCTGCGGGGCTTGTGCTCTGCAAAGACTCTGCTGCTGGGGATTCAGCTCT
AGAGGTCACAGTATCCTCGTTTGAAAGATAATTAAGATCCCCCGTGGAGAAAGCAGTGACACATTCACACAGCTG
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FIGURE 1620B

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TTCCCTCGCATGTTATTTCATGAACATGACCTGTTTTCGTGCACTAGACACACAGAGTGGAACAGCCGTATGCTT
AAAGTACATGGGCCAGTGGGACTGGAAGTGACCTGTACAAGTGATGCAGAAAGGAGGGTTTCAAAGAAAAAGGAT
TTTGTTTAAAATACTTTAAAAATGTTATTTCCTGCATCCCTTGGCTGTGATGCCCCTCTCCCGATTTCCCAGGGG
CTCTGGGAGGGACCCTTCTAAGAAGATTGGGCAGTTGGGTTTCTGGCTTGAGATGAATCCAAGCAGCAGAATGAG
CCAGGAGTAGCAGGAGATGGGCAAAGAAAACTGGGGTGCACTCAGCTCTCACAGGGGTAATCATCTCAAGTGGTA
TTTGTAGCCAAGTGGGAGCTATTTTCTTTTTTGTGCATATAGATATTTCTTAAATGAAGCTGCTTTCTTGTCTTT
TATTTCTAAAAGCCCCCTTATACCCCACTTTGTGCAGCAAAGATCCCCGTGCAGGTCACAGCCTGATTTGTGGCC
AGGCTGGACAAATTCCTGAGGCACAACTTGGCTTCAGTTCAGATTTCAAGCTGTGTTGGTGTTGGGACCAGCAGA
AGGCAAACGTCCAGCCAACACACAGGACTGTAAGAGGACTCTGAGCTACGTGCCCTGTGAAGACCCCCAGGCTTT
GTCATAGGAGGTCGTTCAGCTTCCCCAAAGTCAGAGGTGATTTGATTTGGGGAAGACTGAATATTCACACCTAAG
TCGTGAGCATATCCTGAGTTTTACTTCCTTATGGCTTGCCCTCCAAGTTCTCTCTCTCATACACACACACACCCT
TGCTCCAGAATCACCAGACACCTCCATGGCTCCAGCTATGGGAACAGCTGCATTGGGGCTGCCTTTCTGTTTGGC
TTAGGAACTTCTGTGCTTCTTGTGGCTCCACTCGCGAGGCAGCTCGGAGGTGTGGACTCCGATTGGGCTGCAGGC
AGCTCTGGGACGGCACAGGGCGGGCGCTCTGATCAGCTCGTGTAAAACACACCGTCTTCTTGGCCTCCTGGCCAG
TCTTTCTGCGAATAGTCCTCTCCCTGGCCAGTTGAATGGGGGAAGCTGCTGGCACAGGAAGGAGAGGCGATCCCG
GCTGAGGCTTAGGAAATTGCTGGAGCCGGCTCCAAGCAGATAATTCACTGGGGAGGTTTTCAGAGTCAAACATCA
TTCTGCCTGTGTTGGGGGCCAGGTGTGTCACACAAGCATCTCAAAGTCAAAAGCCATCTGGGGCTGCTGCTTCTC
TTTCTCAGGCTCTGGGGAAAGGAATCTCCCTCTCCTCTCACTTGATTCCAAGTGTGGTTGAATTGTCTGGAGCAC
TGGGACTTTTTTTCTCTTTTCCTTGATGGACCAACAGTGCAAATGCAATCTCGCCATTTAACTTTCAGGTCGATT
TCCTTTCCTGATCAGACATCTTTGTGCCCCCTTTAGGAAGGAAAAGAATACACCTACGATGTGCCAGGCACTGTG
TTAGGCGCTTTTATATAGATCCTCGTTAGGATGAGACTAAGGGATGAGGACATCTCTTTATAAAAGGCCCCTAAG
TAATGGATAAACAGAAACACTTAGAGGTGAGAAGGTCTGTCTTCAAGATCCAAGGTAAGATTGCCTTCAGTCTGA
TGTTTGTTCTCAAGGACTTATCCCCTACAATATTCTCCCACTCCATACTTCTCCTTCTACCCCACCATGTGCTCC
CGTGCACTCCTCAGATGGTCAGAGGGGTAACCCAAGTCCTTAGAGAATTTGGGGACCAATAGAATATGTGATGTG
TGAATTTTCTTTAAAAAACTTAAGGAGTCTTTGCTACCTTCTGCTTGTTGAGTTGTTTTGGCATTCATATTAAAA
GCCAGCATCTCACTATTTATTGACAGGTTGGGCTGTGTGTGTGCGCATGTGTGTATACATTTCCAGGCGTGCCTG
TGTCCTGTAGCTTTTTAAAAGGAAACCCAGTCATCCCACTATGAATCTGGCATCTTCTTATGCTTCTAGTGTTTT
GGCCATACATCAACCAAGGGGTTTAATTTATCCAATGCTTGACGACATGTTCAGGAGGGGCTGGATCAAATTTTG
AGAGGGTTATGGGAAAGGGAGGGGGAGAAGAAATTGACATTTATTTTATTATTTATTTTAAATGTTTACATCTTC
TTTATGTTGTATCAAGCCTGAATAGAAACTGATAGCATTAAAATACTCCGTTCCTCTCTCTCTTCTCGCTTCCTT
TTTTTTTTTTTTTAAATTTAGGATAACACATTTTTGTTTCTAAAGTGATTTGTGATTTGTGCTGTATAAACTGTA
TAAAAGGTTCTGTTTTTAAAGGTGGATTTTCATTCCTCTGGGGACAGTGGTCGCCAAGACATCTACATTGTAAGA
GAACACAGTGGAAGATCCTGTCCTGATTCTCAAAAATTATTTTCTCTGTATGATTAAAAGTTTATTCCATTTATT
TTAGTTTGTGTTTACTTGATTTTGAGGAAGAAAATATTTGACTTTGTGTAAAGAGTAGGGTATCAGGGTGTCTTT
TCTGCGGTGGGAGATGTGTATATATATAGTATTTTGGTGTATAGTAGAAAATAAGCTTTGTGCATCTGTATTTGA
GATATGTTAATGACGTGGAGTAAAGTCAGCTGTAAGACTCTGGAGGCAAACAAGTTGTATATGGTTCATATGGCT
CTATGGGGAATTTAATTACCTTTCTGGGCACTTTTCTTTTTTTTTTTTTCTTAAGTAATGGTGAAATGGTCCCAT
TGGAGAGTCTCCTAAATAGACCTTCCAGGCAGAACCGCAAGCTCAAAATCTTTGTATAGTTTTGAAAATTGAGGA
GTAGCTTTGTTTGGAAGCCTTTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGTTGTTTTACTATATGTAATA
CAAGCCTACAGTATTTGCACTAAAGAAAGCTTGTTAGAAAAAGCTTGCTGCTATGGAAGAAAGAACATATTAAAA
CTTCTTTCCCTTGCGATTTTTTTGGGNGAGGGGGGGTTAGCATTTCCACTTTCAG
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FIGURE 1621

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQQKFRVDMPGSGSAFIPTINAITTSQDLQWMVQPTVITSMSNP
YPRSHPYSPLPGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLSPEEEEKRRIRRERNKLAAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGPVCKISPEERRSPPAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPISIAGGFYGEEPLHTPIVVTSTPAVTPGTSNLVFTYPSVLEQESPASPSESC
SKAHRRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1622

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CTGAGGCAGGGGTCTCTGGGGGCGAGGAGGGCGCGTCGCCCTCTGCCCCCGCCGGCACCCTGGCCATGACAGGCA
AGTCGGTGAAGGACGTGGATCGGTACCAGGCTGTCCTGGCCAACCTGCTGCTGGAGGAGGATAACAAGTTTTGTG
CAGATTGCCAGTCTAAAGGGCCGCGATGGGCCTCTTGGAACATTGGTGTGTTCATCTGCATTCGATGTGCTGGAA
TCCACAGGAATCTGGGGGTGCACATATCCAGGGTAAAGTCAGTTAACCTCGACCAGTGGACTCAAGAACAGATTC
AGTGCATGCAAGAGATGGGAAATGGAAAGGCAAACCGACTTTATGAAGCCTATCTTCCTGAGACCTTTCGGCGAC
CTCAGATAGACCCAGCTGTTGAAGGATTTATTCGAGACAAATATGAGAAGAAGAAATACATGGACCGAAGTCTGG
ACATCAATGCCTTTAGGAAAGAAAAAGATGACAAGTGGAAAGAGGGAGCGAACCAGTTCCAGAAAAAAATTGG
AACCTGTTGTTTTTGAGAAGGTGAAAATGCCACAGAAAAAAGAAGACCCACAGCTACCTCGGAAAAGCTCCCCGA
AATCCACAGCGCCTGTCATGGATTTGTTGGGCCTTGATGCTCCTGTGGCCTGCTCCATTGCAAATAGTAAGACCA
GCAATACCCTAGAGAAGGATTTAGATCTGTTGGCCTCTGTTCCATCCCCTTCTTCTTCCGGTTCCAGAAAGGTTG
TAGGTTCCATGCCAACTGCAGGGAGTGCCGGCTCTGTTCCTGAAAATCTGAACCTGTTTCCGGAGCCAGGGAGCA
AATCAGAAGAAATAGGCAAGAAACAGCTCTCTAAAGACTCCATTCTTTCACTGTATGGATCCCAGACGCCTCAAA
TGCCTACTCAAGCAATGTTCATGGCTCCCGCTCAGATGGCATATCCCACAGCCTACCCCAGCTTCCCCGGGGTTA
CACCTCCTAACAGCATAATGGGGAGCATGATGCCTCCACCAGTAGGCATGGTTGCTCAGCCAGGAGCTTCTGGGA
TGGTTGCCCCCATGGCCATGCCTGCAGGCTATATGGGTGGCATGCAGGCATCAATGATGGGTGTGCCGAATGGAA
TGATGACCACCCAGCAGGCTGGCTACATGGCAGGCATGGCAGCTATGCCCCAGACTGTGTATGGGGTCCAGCCAG
CTCAGCAGCTGCAATGGAACCTTACTCAGATGACCCAGCAGATGGCTGGGATGAACTTCTATGGAGCCAATGGCA
TGATGAACTATGGACAGTCAATGAGTGGCGGAAATGGACAGGCAGCAAATCAGACTCTCAGTCCTCAGATGTGGA
AATAAAAACAAAACACCTGTATGGCTGCCATTCTCTTCAGCCCTCGCTCTCCCCTTTCCACAGCCTCCACCCCTG
ACCCCCATCCTCTTTTCCTACCTCTCTGTTTGGTTTAGAAATTGCTCAATAAGTCATTTGGGGTTTGGCATCCTG
CCCAGCCACTTCCCAAACATGAAGACCTCTCTGTTGCTTTATGTTGTACATGCCCCATAGCCATCCCAACGTCCT
CCCCAGTCCTCTCCTGGCACCAGCACCTTAGAAGTTGTTGGCAGAAGGCACTTAAACTGTGGGAGAAGTGTGCAC
ACCTTTGAGTCCCTTCCCTCAAGGTTAAAGCTCCTGTCAGACTCTCAGAAGGGTCTGTGGGTGTTGTATATTAGG
CAAACAGGGGAAAGCTTAGAGGTCCTTCTATATGTGTTAATAAGCTGTTTCTAAGTGTTTAAATTTGAAAAGCAT
CATGTTCTCATGATTTATGGGAATGAAGCAAGTACTGAAATCAAATTAAATACTCCCTGGGTCCTGGGTCAGTTT
GACCCTAGCCCTGGGGTGAGGCAAGCCCCCTCCTATGAGGATGAGCAAAAATACTACTCTCTTCGCCCTGAGTTG
CTTTCTGGATCTGGGGCTTCAGGACTTGCTGCTTCAGTCAGCTTTTATTAGCACCAAAGACTTTATGAAGATCCC
ACACACAGACACACATCCCTTCCCGCCTCCCCCCTGCCTTCAGTAGGATCTGGCTCCGTGGCTGGAGGACCAACC
CCTATAGTGGGAATGCAGAGCTTAACGTGTACTGCTTGTGTGTGTGCGTGAGTGTGTGTGTGTGTATGAGTGTGT
GTTCCGCCTCCCACCCTCTCCCCATCTGCTCTGGGTATTTTTGTTTTTGTTTAGTTTTAGGTTTACAACAGAGAG
GAATTAATTTATCAGCAGCCTAAAACTGTTGTGTTTTTCTTATGGTTTAAAAAACGCCATGTCATTGATAACTCC
CTTTCTCCCTTCCCTTCTCCCGGTCTGCTGATCACTCTTTCATGCCTGTGTATCCAGGGTGCTCTGTTTCCCCAC
CGTTCCCAGGTGTACGAGGCAGAGGGCCGGGACAGCTTTCCTCTCAGTCATTGTTCACCCCACTTGAAAATTCAG
ACAAGAAAACTTTGCTTAAAAGATTTCATGTGTGGGAACCACAGTTCCTGGCTGCCTTTCTCCTGTGTATGTGTA
AATTCCTTAATAAATATTGCAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1623

MTGKSVKDVDRYQAVLANLLLEEDNKFCADCQSKGPRWASWNIGVFICIRCAGIHRNLGVHISRVKSVNLDQWTQ
EQIQCMQEMGNGKANRLYEAYLPETFRRPQIDPAVEGFIRDKYEKKKYMDRSLDINAFRKEKDDKWKRGSEPVPE
KKLEPVVFEKVKMPQKKEDPQLPRKSSPKSTAPVMDLLGLDAPVACSIANSKTSNTLEKDLDLLASVPSPSSSGS
RKVVGSMPTAGSAGSVPENLNLFPEPGSKSEEIGKKQLSKDSILSLYGSQTPQMPTQAMFMAPAQMAYPTAYPSF
PGVTPPNSIMGSMMPPPVGMVAQPGASGMVAPMAMPAGYMGGMQASMMGVPNGMMTQQAGYMAGMAAMPQTVYG
VQPAQQLQWNLTQMTQQMAGMNFYGANGMMNYGQSMSGGNGQAANQTLSPQMWK

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FIGURE 1624

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AAGGGTGAAATAGAAGATTATCGTTTGCTGACAGATATTTTGGGAATTGAAGATTACAATGGTGACATGGACTTC
AAAATAGCTGGCACTAATAAAGGAATAACTGCATTACAGGCTGATATTAAATTACCCGGAATACCAATAAAAATT
GTGATGGAGGCTATTCAACAAGCTTCAGTGGCAAAAAAGGAGATATTACAGATCATGAACAAAACTATTTCAAAA
CCTCGAGCATCTAGAAAAGAAAATGGACCTGTTGTAGAAACTGTTCAGGTTCCATTATCAAAACGAGCAAAATTT
GTTGGACCTGGTGGCTATAACTTAAAAAAACTTCAGGCTGAAACAGGTGTAACTATTAGTCAGGTGGATGAAGAA
ACGTTTTCTGTATTTGCACCAACACCCAGTGCTATGCATGAGGCAAGAGACTTCATTACTGAAATCTGCAAGGAT
GATCAGGAGCAGCAATTAGAATTTGGAGCAGTATATACCGCCACAATAACTGAAATCAGAGATACTGGTGTAATG
GTAAAATTATATCCAAATATGACTGCGGTACTGCTTCATAACACACAACTTGATCAACGAAAGATTAAACATCCT
ACTGCCCTAGGATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACTTTGGACGTGACCCAGCCGATGGAAGAATG
AGGCTTTCTCGAAAAGTGCTTCAGTCGCCAGCTACAACCGTGGTCAGAACTTTGAATGACAGAAGTAGTATTGTA
ATGGGAGAACCTATTTCACAGTCATCATCTAATTCTCAGTGATTTTTTTTTTAAAGAGAATTCTAGAATTCTAT
TTTGTCTAGGGTGATGTGCTGTAGAGCAACATTTTAGTAGTATCTTCCATTGTGTAGATTTCTATATAATATAAA
TACATTTTAATTATTTGTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1625

ATGGCGCCGAAGGTTTTTCGTCAGTACTGGGATATCCCCGATGGCACCGATTGCCACCGCAAAGCCTACAGCACC
ACCAGTATTGCCAGCGTCGCTGGCCTGACCGCCGCTGCCTACAGAGTCACACTCAATCCTCCGGGCACCTTCCTT
GAAGGAGTGGCTAAGGTTGGACAATACACGTTCACTGCAGCTGCTGTCGGGGCCGTGTTTGGCCTCACCACCTGC
ATCAGCGCCCATGTCCGCGAGAAGCCCGACGACCCCCTGAACTACTTCCTCGGTGGCTGCGCCGGAGGCCTGACT
CTGGGAGCACGCACGCACAACTACGGGATTGGCGCCGCCGCCTGCGTGTACTTTGGCATAGCGGCCTCCCTGGTC
AAGATGGGCCGGCTGGAGGGCTGGGAGGTGTTTGCAAAACCCAAGGTG

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FIGURE 1626

MAPKVFRQYWDIPDGTDCHRKAYSTTSIASVAGLTAAAYRVTLNPPGTFLEGVAKVGQYTFTAAAVGAVFGLTTC
ISAHVREKPDDPLNYFLGGCAGGLTLGARTHNYGIGAAACVYFGIAASLVKMGRLEGWEVFAKPKV

FIGURE 1627

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AGGCCACAGGGCATGGATCAGCCCCACTGCATCTCAAGTGAACTGTATAGCCAAGTCTTAAACCTCTCACGGGGC
AAGCCTGACACAGACCCCCTTTAGATGCTCAGGCATACTGTTTCCATCCCGATTCCACTCTTCGGCTCTGACACG
TCCCTTGCAAAGTCTCCGCAGGTGCTGTGAAGAGCCTTCCATGGTAGAGATTTCTCTTAAGAGTGTGATTTCTCA
TAGGGCTAGTAAGGGAGATTGTATACCTGTTGTCCACAGTCTTCAGGCAGCTCCCCAGGTCTCTGAACCCCAGAG
TGTCGTCATTGGAGAGAGCAGTGACTGCGAGAGATGGTGGAGGCCGCTAAGCATGGTAGAGGCTAGAGGAAGTCT
ATCCACAGGCAGTTGTGTTCCCAGCAATTCCTCCCATCCTGCATGGTTCACACCAAGAGAACCTTCAGATCCTAC
CAGCAACCGTAGCACCTTCCACCCAGGGGACTCCCAGAAGCCAGTAAAGAGACCAGGAGCCACCTCAATCAGCAG
GACAGCCTCACTGCCCCTCTTGCAGAGTCCCCTTTGCCCATCCTGAATGCACAGTCTCCCTGCTCATGCCCTTCA
GTCCCCTGCTTGGCTGTATGCACTGTCTATATTGCACTGAGAGAGGAAGGGACAGCAGGAGTGAGGTGAAGAGGG
CGGAGAGAGGGGGCAGGCTCGGCACCGGCCCTCCCAGCCCGGCCAGCCTGAGCTTGCTGCCCTCCAGTAGAGACA
GAGGGGCAGTGTTTGCAAGGGAGGTGTTTCTGCCTGTCCCTGCCTGATGTCCCTGGTGGAGCAGGTACCTCCGGG
CGGGCAAGCCTCTGATTTGCACACCTGAAAATCGCGGAATTGAGTTTCGATAGATTGATTTTTAAAACTTTTTTG
GAGTAGGGGGTATAGGGGAATCATTTAATTTAAATCATTAAGATTCCCCTGCTCAAACCCAGATTCCTGTGTACA
GATGCTATTTAGAGGGAATCAGAAAAATGCCAAGCCTTTTCTCTTTGAATGTGCTATTTTTATAACTGAACTTGT
ACATATGTATAAAGAGAGACACATCTTCCTTTTACTAACTGGATAAAAAAATCTTAAATAAAATGGAGTGAGATA
ATTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1628

MVEISLKSVISHRASKGDCIPVVHSLQAAPQVSEPQSVVIGESSDCERWWRPLSMVEARGSLSTGSCVPSNSSHP
AWFTPREPSDPTSNRSTFHPGDSQKPVKRPGATSISRTASLPLLQSPLCPS

FIGURE 1629

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GGAGGGAGAGGCTGAATGTTGGCTCGGTAATTGAGAGGAGCGGCCGCTCCAGAGCTTCCTCCCGGGGCGCCCCCC
TCAGTCCGTCCGCGCTTCTCAGCCGCCAGTCTCCTGGCCGCGCAGTCCCCGCGGACGGCCGGGCCGCGGAGACCC
TCGCAGAAGAGGCGCTGCCGGCGGCGAGGACTGGCCGGCGGCATCCGAGGCGCGCGCCCCACCGCCACCCCCACC
CGCCTGCCAGCCGGTCCCTCCGGCCGCCGCCATGTCCTCCTCCTCTTCCTCCCCCAGGGAGACGTACGAGGAGGA
CCGGGAGTACGAGAGCCAGGCCAAGCGTCTCAAGACCGAGGAGGGGGGAGATCGACTACTCGGCCGAGGAAGGCGA
GAACCGCCGGGAAGCGACGCCCCGGGGCGGGGGCGATGGCGGCGGCGGCGGCCGGAGCTTCTCTCAGCCGGAGGC
AGGTGGAAGTCATCATAAAGTTTCTGTTTCACCCGTCGTCCATGTTCGAGGACTCTGTGAATCTGTGGTGGAAGC
AGACCTCGTGGAAGCGCTGGAAAAAATTTGGGACAATATGCTATGTGATGATGATGCCATTTAAACGACAGGCTCT
AGTGGAATTTGAAAACATAGATAGTGCCAAAGAATGTGTGACATTTGCTGCAGATGAACCCGTGTACATTGCTGG
TCAACAGGCTTTTTTCAACTATTCTACAAGCAAAAGGATCACTCGGCCAGGAAATACTGATGATCCATCAGGAGG
CAACAAAGTTCTTCTGCTCTCAATTCAGAATCCGCTTTATCCAATTACAGTGGATGTTTTATATACTGTATGCAA
CCCTGTTGGCAAAGTGCAACGTATTGTTATATTCAAGAGAAATGGGATACAAGCAATGGTTGAGTTTGAATCAGT
CCTTTGTGCCCAGAAAGCTAAAGCAGCACTCAATGGAGCTGATATATATGCTGGATGTTGCACACTAAAAATTGA
ATATGCACGGCCAACTCGTCTAAATGTTATTAGGAATGACAATGACAGTTGGGACTACACTAAACCATATTTGGG
AAGACGAGATAGAGGAAAGGGTCGCCAGAGACAAGCCATTTTGGGAGAACACCCTTCTTCGTTTAGACATGATGG
CTATGGATCCCATGGTCCATTATTGCCTTTACCAAGTCGTTACAGAATGGGCTCTCGAGATACACCTGAACTTGT
TGCTTATCCATTACCACAGGCTTCTTCCTCTTACATGCATGGAGGAAATCCCTCTGGTTCAGTTGTAATGGTTAG
TGGATTACATCAACTAAAAATGAATTGTTCAAGAGTCTTCAACCTGTTCTGCTTATATGGAAATATTGAGAAGGT
AAAATTTATGAAGACCATTCCTGGTACAGCACTGGTAGAAATGGGTGATGAGTATGCTGTAGAAAGAGCTGTCAC
ACACCTTAATAATGTCAAATTATTTGGGAAAAGACTTAATGTTTGCGTGTCTAAACAACATTCAGTTGTTCCAAG
TCAAATATTTGAGCTGGAGGATGGTACCAGCAGCTACAAAGATTTTGCAATGAGCAAAAATAATCGCTTTACAAG
TGCTGGCCAAGCATCTAAGAATATAATCCAGCCACCCTCCTGTGTTTTGCATTATTATAATGTTCCATTGTGTGT
CACAGAAGAGACCTTCACAAAGTTGTGTAATGACCATGAAGTTCTTACATTCATCAAATATAAAGTGTTTGATGC
AAAACCTTCAGCCAAAACACTTTCTGGGCTATTAGAATGGGAGTGCAAAACTGATGCAGTAGAAGCCCTTACGGC
ACTGAATCACTATCAGATAAGAGTGCCGAATGGTTCCAATCCCTATACATTGAAGCTTTGCTTTTCTACATCATC
CCATTTATAAGAAGAGAAGAGCATGTTAGAATTTATGTTCACCTTTATTACAATTTCAAAGCTACACTTCATTAA
AAAAAAATCTAAAATGGTTGATCTCATGTTGCCTTGCTTACTTTAAGATCCTGTTCTGTAATAAACATATTTTGC
CTTGAGTAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1630

MSSSSSSPRETYEEDREYESQAKRLKTEEGEIDYSAEEGENRREATPRGGGDGGGGGRSFSQPEAGGSHHKVSVS
PVVHVRGLCESVVEADLVEALEKFGTICYVMMMPFKRQALVEFENIDSAKECVTFAADEPVYIAGQQAFFNYSTS
KRITRPGNTDDPSGGNKVLLLSIQNPLYPITVDVLYTVCNPVGKVQRIVIFKRNGIQAMVEFESVLCAQKAKAAL
NGADIYAGCCTLKIEYARPTRLNVIRNDNDSWDYTKPYLGRRDRGKGRQRQAILGEHPSSFRHDGYGSHGPLLPL
PSRYRMGSRDTPELVAYPLPQASSSYMHGGNPSGSVVMVSGLHQLKMNCSRVFNLFCLYGNIEKVKFMKTIPGTA
LVEMGDEYAVERAVTHLNNVKLFGKRLNVCVSKQHSVVPSQIFELEDGTSSYKDFAMSKNNRFTSAGQASKNIIQ
PPSCVLHYYNVPLCVTEETFTKLCNDHEVLTFIKYKVFDAKPSAKTLSGLLEWECKTDAVEALTALNHYQIRVPN
GSNPYTLKLCFSTSSHL

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FIGURE 1631

GGCGGGCGAGCAAGCGAGCGGCGTCTCCACCAGCATCTGCCGCGGCCGCCTTTGCCCGAAGCCCGGGGACGAACC
GACGGACCGACCGCCTGGCGCACGGACGCGGGCGCTCGCTTTGTGTTCGGGGCTAGCGTCGGCGAGGCTTGAGCT
TGCAGCGCGCGGCTTCCCTGCTTTCTCGCGGCCACCCCGGCTCCGGCGGCCTCGGCGCGCGAGGGGCTGGAGGTG
CGGGAGCCGCTCTCCGCCGGTCGGTCCCCGCGCGGCTGAGCCCAGGCCGCCAGCGCCGCGGCCCCGTGCGGTGTC
CCTGAGCTCCTGCTCCCCGCCGGGCTGCTCCGAGCAACGGTGCTTCGGAGCTCCAAACTCGGGCTGCCGGGGCAA
GTGTCTTCATGAACCCAGAGG**ATGT**CCGGGAAGCACTACAAGGGTCCTGAAGTCAGTTGTTGCATCAAATACTTC
ATATTTGGCTTCAATGTCATATTTTGGTTTTTGGGAATAACATTTCTTGGAATTGGACTGTGGGCATGGAATGAA
AAAGGAGTTCTGTCCAACATCTCTTCCATCACCGATCTCGGCGGCTTTGACCCAGTTTGGCTCTTCCTTGTGGTG
GGAGGAGTGATGTTCATTTTGGGATTTGCAGGGTGCATTGGAGCGCTACGGGAAAACACTTTCCTTCTCAAGTTT
TTTTCTGTGTTCCTGGGAATTATTTTCTTCCTGGAGCTCACTGCCGGAGTTCTAGCATTTGTTTTCAAAGACTGG
ATCAAAGACCAGCTGTATTTCTTTATAAACAACAACATCAGAGCATATCGGGATGACATTGATTTGCAAAACCTC
ATAGACTTCACCCAGGAATATTGGCAGTGCTGTGGGGCTTTTGGAGCTGATGATTGGAACCTAAATATTTACTTC
AATTGCACAGATTCCAATGCAAGTCGAGAGCGATGTGGCGTTCCATTCTCCTGCTGCACTAAAGATCCCGCAGAA
GATGTCATCAACACTCAGTGTGGCTATGATGCCAGGCAAAAACCAGAAGTTGACCAGCAGATTGTAATCTACACG
AAAGGCTGTGTGCCCCAGTTTGAGAAGTGGTTGCAGGACAATTTAACCATCGTTGCTGGTATTTTCATAGGCATT
GCATTGCTGCAGATATTTGGGATATGCCTGGCCCAGAATTTGGTTAGCGATATCGAAGCTGTCAGGGCGAGCTGG
TAGACCCCCTGCAACCGCTGCTGCAAGACACTGGACAGACCCAGCTTTCGGGACCCTCCCGCGTGCCGAACTGAT
CTTCGAGCTGCATGGACCTAATCACAGATGCAGCCTGCAGTCTCGCCTAATGGAGCTGCCATTAGGGGAGTGTAA
AACTGGGAAATGCTGCTCACTGACAGAATTAAAAAAAAAAAATAACCAGTATGAAAGTCGTTGCGCCGTGAATCTC
TACTGTAGCCATGAATTTATGGACAGTTAGATGCTTACCAAAAAAGAAAAAAAGGGAGGGTAGGGGACCCAGATG
TACTTGAATGTGCAGAAAATACATTCTTGTCCTCATCTTCCGTAATTGGAGGGCTGGGAGAGGCAGCTTTGCTCT
TCACCACACCTTGGACGGACCACCTTCTTTCTGTTCCATGGCCTGAAGGAGTGCATCTCCTCAAAGACTCAGCCC
CTCACCTGGGAGGGCAGTGGTTTGTGGGCATCCCTCCATGTACATTTTAGGAAACACTTGCAACTCTCATCTGAA
GAAGAAAACAACTCATCTTTGGGTTCAGATTTTGTGATGGTATTCAGCAAGTCACTTGGGCGAGCACACTTGGTC
TATCCTGGAAAGTCTCCTTATAAGAGAAGTTGTGTATTTCATGTGCACCGAGCAAGGGCATTGGAAGACGTCATG
AGGCTGTATTTTAGCAGGACTGATCGTTTTTCTAAGTAGACCTGAGCTTTGTTTATCAGTGAAATTCAAGGAGAA
AATGAGGTTAATGAAGAGGTATCAGTTAAATATCCCCTTCTTCTCACCCTGCCAAAATTAGCAGTTGGATTTTTG
GAAACTCTGGAATATTCTGGGTCATTTTGTTTTGTATGTTTGTTGTTTTTCGTCTTCCAAAGGTGAAAGCTATGA
TACAGTTCCACTTAAATTTTAGTGTTTTCTTACTCAGCTCAAGCATTAATTTTTGATTAAGTCTTAATCTGCATG
ACCTGTGAATCTGAATCCATCATCTCCCTTTCCTGCCAGCTTTTCTACAAACATTGAAATATGTTATTTGGTCAG
CACTTATTTCCTAGGTTCACAGCCTTGGGAGGTTGTGGCATGTCCTCCCAGTCTGGCTGGGAAGAGACCAGCTGT
ACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGATCTGAGTGGCCTTTTCTGCACCCTCCCCT
TCTTTCTCTTTGAATGGAATTAAACCCAATTTGGAAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTTCTTT
TTCTTCCTCCAGTTTTAGTTTGCTTTTATTAAAAAAAGAAAATAGTGCATGGCCATAGCTCCTTCAGTTCTCTTA
TTGCAGACTAACCATCAGGATGGTATCAAAGCACAAATACTTTGGAGGGGAATGCGTTGAACTGGGGCAAGTACT
CTGTAACACAAAGTGGGAAACCACTTCCTGGTGCTGCCGCTCCTGCCCCCACTTTAGGTGGGAGGGACGAGTTTT
GCCCTCTAGATTTTAATCCAGCTGGTGTCCACCGGATGTTGCCCTCCTGGGGAGCAGATATCAGTCTGTGGAACT
CTGGGAAAACCACAGGCACATTTTTCGGTGCGGACAGATTTGCCAGCACATAACTGGGCAGCCAGCTAGAATACT
TTGTGGAAATTAAGCGAGGTTTTCCATTTCAGCCCCATGGTGCATGGTGGTGGCCGATGAATGTGTCAGTCTGCT
CAGAGAAAGGACAAAAAGGAAATTATTTTCAAAACTGTGTTCACTGTTTGGGTGTGTGTATGGCTCTGCATGTGT
GTGTTTTTGTCTCTGTATAGGTAGAGGTATTCACATCTTACTCCGACTGTAAGGTTGTCTTACTTCATCTCTGCC
CCCACCACAGTTGCCATTTGTAATGTCCTTCCAACATGGAGAAGACACGAGCTCTCTCCAGTTGGCATCATTTG
TCTTTTTTGTTGATTGCCTCATTCTCCAGTGAACTCCATCTGGCCAATTGATTCAGAATCAGGCAAGATCCCTGC
CCTTTGGCACATCCACTGAAAGGCCAAACAGCAAGTCCGAGTGAGTTTTAAATATTAATTAATCACCCTTTATTT
TTTACACTTGAGAGTGATTGTAATAAAGGCTGTCATTAATAAACTTGGTTCTACCTTAAAAA

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FIGURE 1632

MSGKHYKGPEVSCCIKYFIFGFNVIFWFLGITFLGIGLWAWNEKGVLSNISSITDLGGFDPVWLFLVVGGVMFIL
GFAGCIGALRENTFLLKFFSVFLGIIFFLELTAGVLAFVFKDWIKDQLYFFINNNIRAYRDDIDLQNLIDFTQEY
WQCCGAFGADDWNLNIYFNCTDSNASRERCGVPFSCCTKDPAEDVINTQCGYDARQKPEVDQQIVIYTKGCVPQF
EKWLQDNLTIVAGIFIGIALLQIFGICLAQNLVSDIEAVRASW

FIGURE 1633

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GGGAACCCACAGGCGCGCGCGCCGCTGCTTCTGGCCGGGCGCGGGTCGTGGTGCACCACGGGAGCGCCGCACCGG
CCGGCATGGAGGAGCGCGGCGATTCCGAGCCGACCCCCGGCTGCAGCGGCCTGGGTCCGGGCGGTGTTCGCGGCT
TTGGCGACGGCGGTGGAGCTCCTTCGTGGGCCCCTGAGGACGCCTGGATGGGCACTCACCCTAAGTATCTAGAAA
TGATGGAATTAGATATAGGAGATGCCACCCAAGTTTATGTAGCGTTCTTGGTTTACCTGGACCTCATGGAAAGCA
AAAGCTGGCATGAAGTAAACTGTGTAGGATTACCAGAACTCCAGCTCATCTGCCTTGTTGGTACTGAGATAGAAG
GGGAGGGGTTACAGACTGTGGTGCCTACCCCCATCACTGCTTCCCTCAGCCATAACAGGATAAGGGAGATCTTGA
AGGCATCTCGAAAGTTGCAAGGTGATCCAGATTTGCCGATGTCTTTTACTTTGGCCATAGTGGAGTCTGATTCTA
CAATAGTCTATTATAAACTTACTGATGGATTTATGCTGCCAGACCCTCAGAATATTTCTCTTAGAAGATGACATC
CATGTTTCCTGATGCTTGTTTTATTCATACAAGATTGGATTTGAGACCCATCAGACTGCTTCATCTTTTATCTCA
GAAATAGGGTTGACGTACATAGTGAGGGTTGACTTCCCCATTCCATAAGGTTTTCATTCTGAAGAGTAAAACTTC
CCCAGGTAGAAGACTTTCTCCTTCTTAAAAAATATAGGGTGATTTCTTTAAAACTTTGTTATCTAGAGACAGTTT
AATTACAGTTATATACAGGTTTATGCCTAGGATGTATTCAGATGGGTGGGACCTGTGTGCTGCTTTTGTCATCCC
ACACTCAAAGTTGTCTCTTTGTTTCTTGCTGCCACTGCCAGCTCATTGTTGAGACTGCCATTTCTTTCTCTTACT
CAGCTCTCCCCAGTGCCTTTTGGCCACTGCAGCTACCGTAGAATGGCATTTTATATGTACCTTGTCACCCACTTC
TGTTTACTTTTTCCTCTCCAGTAAAAAGTAAAAGATTTCTTTCAATTGGTCTTCCCATTGCAGTTACTGTTATTT
CTCTTTTTTGGTTAACTTTAAATCAAAACTCAAAATATGTTCATCCAGAGTGTGTCTTAAGTAACTTACGTGTCT
TAAGTAACAGGGACCAGAGACATGTTACCTACAAGAGTTCTGGGCTATCCTTTTCATTCTTATCACATATCATAG
CTTGAATATTACAACAGTGTGGGAGAGAATCAACCGTAAAAATGTCTTCATTAATTAGACCCAGTTATTCCACTT
TTGTTAATGTCTCTCAAATTGTACAAAGTATAAAAAATTATATGCACAAAGATGTTCCAAGTGACATTACTTTTA
GTAGCCCAAATTATAAACCACTTTAAAGTTTGGGGTAAAGATTGGCAAACTTTTTCTATAAAGGGCCAGAAAGTA
ACTATTTTAGGTTTTTAAACCTACTGTCTCTGTCATAACTTGTCAACACTGCTGTATGAAGCACAAAAGCAGCCA
TAGACAATACATAAACAATACGGGCGTGGCTTTGTTCCAGTAAAACTTTGTTACAAATGTGGTGCCATAGTTTG
TCATCCCTGGGTCTAGGAAATAGTCAATAAACAGATATATACAAATGATACATAATGTACTTATTAAAAATTAGT
AATGAATATTATTAAAAACATGAAAATATTACCTTAAGTAAAAATTGCAAGACGGAAAAGTGTATAAGTGGGTGT
AATCATGGCTGAAATAACAGACCAAGCATATGATAAAAAGATAACAAAGTAAATCAAATTACTAACTGGTTATAG
TGGGATAGGAGGCAGAAAATGGATGACTTTGTCTTTTCTCAATGTTTTTATTTGTATTTTATAATAAAAATGTTT
TAAAATTAAAA
```

FIGURE 1634

GTCGTGGCATTGAGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCGGAGAGAGA
GGCTCCAAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGGGGGGAGCCGAGGTTCCGGG
AAGGGGCTAGGCCGGCTTGAAAAGAGCTGGAACACAAGAAGTGTTTGTTTAATGAATGACGTACACATTTAAGAT
CTGTTTGGACGCGGAGGATAATCCTGTGAATTGCTAATAGTTCACTGGGTTTGGCCCTTAGTGTTGACTTCAGTA
TGCTGAGACGGAAACCAACACGCCTAGAGCTAAAGCTTGATGACATTGAAGAGTTTGAGAACATTCGAAAGGACC
TGGAGACCCCGTAAGAAACAGAAGGAAGAATGTGGGAAGGTTGTAG

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FIGURE 1635

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GCGCGGACCTTTCAACAAGGGCTTTATTAATTCTCACGCTGCGGCCCTGGAAAGCGATGGAGGTGGCGGCTAATT
GCTCCCTACGGGTGAAGAGACCTCTGTTGGATCCCCGCTTCGAGGGTTACAAGCTCTCTCTTGAGCCGCTGCCTT
GTTACCAGCTGGAGCTTGACGCAGCTGTGGCAGAGGTAAAACTTCGAGATGATCAATATACACTGGAACACATGC
ATGCTTTTGGAATGTATAATTACCTGCACTGTGATTCATGGTATCAAGACAGTGTCTACTATATTGATACCCTTG
GAAGAATTATGAATTTAACAGTAATGCTGGACACTGCCTTAGGAAAACCACGAGAGGTGTTTCGACTTCCTACAG
ATTTGACAGCATGTGACAACCGTCTTTGTGCATCTATCCATTTCTCATCTTCTACCTGGGTTACCTTGTCAGATG
GAACTGGAAGATTGTATGTCATTGGAACAGGTGAACGTGGAAATAGCGCTTCTGAAAAATGGGAGATTATGTTTA
ATGAAGAACTTGGGGATCCTTTTATTATAATTCACAGTATCTCACTGCTAAATGCTGAAGAACATTCTATAGCTA
CCCTACTTCTTCGAATAGAGAAAGAGGAATTGGATATGAAAGGAAGTGGTTTCTATGTTTCTCTGGAGTGGGTCA
CTATCAGTAAGAAAAATCAAGATAATAAAAAATATGAAATTATTAAGCGTGATATTCTCCGTGGAAAGTCAGTGC
CACATTATGCTGCTATTGAGCCTGATGGAAATGGTCTAATGATTGTATCCTACAAGTCTTTCACATTTGTTCAGG
CTGGTCAAGATCTTGAAGAAATATGGATGAAGACATATCAGAGAAAATCAAAGAACCTCTGTATTACTGGCAAC
AGACTGAAGATGATTTGACAGTAACCATACGGCTTCCAGAAGACAGTACTAAGGAGGACATTCAAATACAGTTTT
TGCCTGATCACATCAACATTGTACTGAAGGATCACCAGTTTTTAGAAGGAAAACTCTATTCATCTATTGATCATG
AAAGCAGTACATGGATAATTAAAGAGAGTAATAGCTTGGAGATTTCCTTGATTAAGAAGAATGAAGGACTGACCT
GGCCAGAGCTAGTAATTGGAGATAAACAAGGGGAACTTATAAGAGATTCAGCCCAGTGTGCTGCAATAGCTGAAC
GTTTGATGCATTTGACCTCTGAAGAACTGAATCCAAATCCAGATAAAGAAAAACCACCTTGCAATGCTCAAGAGT
TAGAAGAATGTGATATTTTCTTTGAAGAGAGCTCCAGTTTATGCAGATTTGATGGCAATACATTAAAAACTACTC
ATGTGGTGAATCTTGGAAGCAACCAGTACCTTTTCTCTGTCATAGTGGATCCTAAAGAAATGCCCTGCTTCTGTT
TGCGCCATGATGTTGATGCCCTACTCTGGCAACCACACTCCAGCAAACAAGATGATATGTGGGAGCACATCGCAA
CTTTCAATGCTTTAGGCTATGTCCAAGCATCAAAGAGAGACAAAAAATTTTTTGCCTGTGCTCCAAATTACTCGT
ATGCAGCCCTTTGTGAGTGCCTTCGTCGAGTATTCATCTATCGTCAGCCTGCTCCCATGTCCACTGTACTTTACA
ACAGAAAGGAAGGCAGGCAAGTAGGACAGGTTGCTAAGCAGCAAGTAGCAAGCCTAGAAACCAATGATCCTATTT
TAGGATTTCAGGCAACAAATGAGAGATTATTTGTTCTTACTACCAAAAACCTCTTTTTAATAAAAGTAAATACAG
AGAAT**TAA**TTATTCTAACATATTGGCCTCTTTGTACTGGAAAAGTATTCAGTGGTACCTGGAGGTCTGGACAGTT
ATACTGTAACCTCTTAAGTTTTAATGTGCTAAATATATCTTGTATGATTTTTTATTTTTTAATAACATTGGAAAT
ATATTCAAGAGATTATGATTCTGTAAAGCTGTGGAATGAAGCTGCAGATTTAGAGAACATTGGCTTCTGAAAAAAA
AAAAAGAGTGAAGATAGTACTAGCAAGTATACTTATTTTTTAAAACAGGCTAGAATCTCATGTTTTATATGAAAG
ATGTACAATTCAGTGTTTAAAAATAAAAATATTTATTGTGTAAAAAAAAAAAAAAAA
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1807/2682
FIGURE 1636

ADLSTRALLILTLRPWKAMEVAANCSLRVKRPLLDPRFEGYKLSLEPLPCYQLELDAAVAEVKLRDDQYTLEHMH
AFGMYNYLHCDSWYQDSVYYIDTLGRIMNLTVMLDTALGKPREVFRLPTDLTACDNRLCASIHFSSSTWVTLSDG
TGRLYVIGTGERGNSASEKWEIMFNEELGDPFIIIHSISLLNAEEHSIATLLLRIEKEELDMKGSGFYVSLEWVT
ISKKNQDNKKYEIIKRDILRGKSVPHYAAIEPDGNGLMIVSYKSFTFVQAGQDLEENMDEDISEKIKEPLYYWQQ
TEDDLTVTIRLPEDSTKEDIQIQFLPDHINIVLKDHQFLEGKLYSSIDHESSTWIIKESNSLEISLIKKNEGLTW
PELVIGDKQGELIRDSAQCAAIAERLMHLTSEELNPNPDKEKPPCNAQELEECDIFFEESSSLCRFDGNTLKTTH
VVNLGSNQYLFSVIVDPKEMPCFCLRHDVDALLWQPHSSKQDDMWEHIATFNALGYVQASKRDKKFFACAPNYSY
AALCECLRRVFIYRQPAPMSTVLYNRKEGRQVGQVAKQQVASLETNDPILGFQATNERLFVLTTKNLFLIKVNTE
N

1808/2682
FIGURE 1637

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GTCCTGGGGAGATTGGAGGGGACGGCAGCGTTCTGCATGACGGAGGCGCTGCCGGGCCCCGGGTCTGTGGGGGCC
GTGCTCTCAGGGCGTGTGCGGGACGCCACCTGTGCACACCTGCTCAGAGCACGGCTCCTCGCAGGGGTGAAGGGG
CAGACCAACGAAACCAGATGAGACCAACGACACCATGCGAGACACGCTTGCAGACACTGTTGTTTTGGAAATGTG
CTTCCCTCCATCTGAAATCTCATCCCTCCACCCGCCCACTCGGGCAGCTGTGCCGTGGGCAGGGCATGCGCTCCC
CTGGCTGAGCACCCCAGAGATTCTCCTGCACCTTCCTCATGCCGCACGCTGCTCATCCGTCTCCATGTGTGTTTA
GATCCATGCCATTCACTGACTCACTAACACCTGCAAAATCTTTAAGGAAAAAAGCTGAAGGGTACGACCATGCAC
ATATGTGACCTGGAAAATGCAAATTTAGATCTTTTATGATTTAATTATTATTGTTTCCCATAGAAGTTCCCTCCC
TTTGAAATTAATATATAATGTATAAATTCTGCACTGAGCCATGGCGGAGCTGGGCAGCCCCTAGGTTAGAGTGGA
GACGGAGGCCCAGGCGCAGGGGTCACACCTCATCTGGTTTCCTTCCCATCTCACAGCTTAGCTTGTGCTTCTCAA
CACCAAGTCTTTAAGAGCAATAAAAACTACACCATGAATGTTTGAATTTTTTTTTTTGGGGGGGGGAGGGTGGA
TTTTGCTTTTCATCCAGAAGGAAAAGGGGAGGAGAGCTCCTTTACATTTTTTAAATTAAATTCATAAATCCCAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1638

GGCACGAGGGAGACGGACTCTTGCTATGTTGCCCAGGCTGGTCTTGAACTCCTGGCCTCAAGCAATCCTCCTGCC
TCAGCCTCCCAAAGCACGGGGATTACAAACCCTGCTGAGGG**ATG**CCCAAGAAGTTCCAGGGTGAGAACACCAAGT
CGGCAGCGGCCCGGGCACGGAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATG
CCTACTGGAAGGACGACGACAAACACGTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGCGCCTCG
ACCAGCTGGAACGTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGC
CGCGGGTGGCCACGTCCAGCAAGGTCACCCGGGCCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGG
AGGCCCCGGACACAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCGTGC
TGGAGGAGGGCAGCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCG
ACCGGCACCCAGAAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAG
AGAACCCCAACATGCGGCTGTCGCAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCA
TGAACCAGCGGGCCGTGCCCTTCAATGCCCCCAAG**TGA**GCCCAGAACTTGGGGAGCCAGTTCACCCACGGGGTGG
TCCAGGTCACGACTCTGCACGCCCTTAGGCCAGGTCAGCTGCGAGGGTCACAGAGCGTTCCGGGGGGCCAAGGCGC
CGGGCCCCGGGGCCATGCTCTTATCACCAGCCACCCGTCCTCCCGCCAGAGGGTCCCTGCCCCGAGTGACACCCC
ATCCCCTCCCATCCCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCTAA
AAAAAAAAAAAAAAAAAAAA

FIGURE 1639

MPKKFQGENTKSAAARARRAEAKAAADAKKQKELEDAYWKDDDKHVMRKEQRKEEKEKRRLDQLERKKETQRLLE
EEDSKLKGGKAPRVATSSKVTRAQIEDTLRRDHQLREAPDTAEKAKSHLEVPLEENVNRRVLEEGSVEARTIEDA
IAVLSVAEEAADRHPERRMRAAFTAFEEAQLPRLKQENPNMRLSQLKQLLKKEWLRSPDNPMNQRAVPFNAPK

FIGURE 1640

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TTTTTTTTATCATTGACAATGTTTATTATCAAGAAACTTTAGGTTTTTTAAAAGAATGCTCGTTTTAGAATACAC
CAAGAGGACACTCTGTGACAGGACATATACAAACAAGGATAATTAAAATATTAAATACTATCTAAATTAAAAGAC
CATAATTCAAATTGCTAATTATAATATTTGTGTCGGTAGAAATAACTATAGTTCCCCTTCATGAAATTCACCCCC
ACGTTCTCATGAAGACTATGACGTCTCACCACAATTTCAGTTATTTAATTTACAATAATCAATGCTGAGTTTTCT
GTGCTGAAGCATGCACTGTTACAGAAAGCACAAAATCCTATTTACAGGGATTTTTAGTTTTCTTTAAAATGTATC
TCAAGCATCTTTTAAAGTGCGAGCTACAAATAGGTTGTATCCTTAATGAAAAAGGCTTCTTTCTAAAAGAAGTAT
GAGATAGCTATCCAATACTGCAGGAACAGTTATATAACTAACCGAAGGAACCAGCAGCACTCTGCTAACTCTGTT
TTAGTGTAGCAACCTCCTTCTTGGTGTTCTACTACCAGCCAXACATGTACTCCATTGCTTTGGATACCAGACTTT
CATCTTTTTTGGCGTTTGTCTGTCAGAAATACCCTGATAATCACTAGTAGAGGC
```

FIGURE 1641

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GGCAGATCTCACGAGAGAGGATTTGGCGCCCTCCTCTGTGGATTCTGGCCAGGCCGGGTTCGGCGGTTGCTGTGA
GAGCGGGCTTCCCAACACCATGCCGTCCGCCTTCTCTGTCAGCTCTTTCCCCGTCAGCATCCCAGCCGTGCTCAC
GCAGACGGACTGGACTGAGCCCTGGCTCATGGGGCTGGCCACCTTCCACGCGCTCTGCGTGCTCCTCACCTGCTT
GTCCTCCCGAAGCTACAGACTACAGATCGGGCACTTTCTGTGTCTAGTCATCTTAGTCTACTGTGCTGAATACAT
CAATGAGGCGGCTGCGATGAACTGGAGATTATTTTCGAAATACCAGTATTTCGACTCCAGGGGGATGTTCATTTC
TATAGTATTTTCAGCCCCACTGCTGGTGAATGCCATGATCATTGTGGTTATGTGGGTATGGAAGACTTTGAATGT
GATGACTGACCTGAAGAATGCACAAGAGAGAAGAAAGGAAAAGAAAAGGAGAAGGAAAGAAGACTGAGGGGCAGC
AGCTGCTTGGAGTTTGCGTCCTTCCCGTCCACCCAGTGCAGCTCCCAGTGCTGCAGTGTGCGTGGCGTGGGCATC
CTTCCAGCTGACTCATGGTTTGAAAAACCGTTGTTTTATTTAAATATCCACAGTGGTAGGGCACACACTGAAGTT
GGCTTTTCAGCCAGCACTGAATGTATCCATCAGGACATGCGTCTTCAGGTGCCTGATCTTTGTAGTCAGGCTGTG
GGAACGGTCTCTGCAGAGCTTCATAACTGGGAATTTGATTTGAAGAAGTCCATGTCATATGTGTAACTAGTACTA
ATTATAAATATAAAATACACAATATAAAATATGAAACTCAATAATAAACAGTGCCACCTGTACATGGGCACCATG
CCCTCCTCCTCGTGCTGTGTTTTCTAGTGCATGCCACAGTTCGCAGTAGAGGGTGTTTTCACCTTCCAAGACATG
GGGCAAAGTTTGGAGACACCTGGTTGTCACTGGAGGGGGTGGTGCTCCTGGCTTCTCCTGTGGAGCCCGGGGTGA
TGCATAAAATCCTGTGTGCCTGGGTCAGCCGCATCACAGACAATGACTTGACATGAAATGTCAGCTGTGCTGGGG
CAGAGAGACCTTGGAAGGAAGCTCTTGGAAAATACGTTGTATCTCAGTTTGATGAACCAATTCACAAGAGGCTAG
GCCCTCTCTAGCAAAGTTATGGGCTGCTTTACTGAAAACAGAATGGAAGCCCTGAAGTCAACACTCCATGGAGAA
GCGTGTCTTTCCTAATGTCCTGGTGTTCTGTTGATTTAGGTGCTTGGGAACACAATGCTCCCAGTTCTGTTAGGA
CAGGCATACTGTTACTTTGCAATATCCACTTTATAAAATAGCTCCTGCCCAGTGGCTCTTGGTTCCTGTCAAATG
TGGACCTGTAGTTTAAGAATGACAGGTGGTTAGAGACCCAGATATTTAAAAATAGGTGTTCAATAAGGGAATACT
GATTGTGCATTGTATCTGGATAGCATGCCTAATTGTGCATTTCTGAAAGTTACCAATTCAAAATGTAATTGGAAC
AGTTATCTTTGATTAGACAAGCCTGGGAAGAGAATGTTGAGGTGCAGAGCTCACCAGCCAAGTTCATGCCCCTCT
CGGGCCTTTGTGGCTGAGAAGTGGGACAGAAAGATGATTAAGGTAATGTGTCCTCCCTGTAGCATTGTCCAGGGC
CGTTGTGTAGATATTTGACTTCACTGACAGAAAAGAAACCAGGGAGTTTGTAGAGACTGTGCATTTTTAGTATAA
CATTTTCACCATCTGATATGGTTTGGCTTTGTGTCCCCACCCAAATTGCATCTCAAATTGTAATCCCCATGTGTC
AAGGGAGGGACCTGATGGGAGGTGATGGGATCATGGGGGTGGTTTCCCCTATGTTGTTATCATAATAGAGAGGGA
GTTCTCACAAGATCTGCTGGTTTTAAAGACAGCAGTTTCCCCTGCTGTCACTGTCTCTCTCCTGCTGCCTTGTGA
AGAAGGTGCTTGTTTCTCCCTCTGCCATGATTGTAAGTTTCCCGAGGCCTCCCCGGCCATGTGGAACTGAGTCAA
TTAAACTTCTTGTTTATAAAGTAAAAAAAAAAAAAAAA
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FIGURE 1642

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GCAGCCCCGGCGGCCGAACGCCCGCGGCGCGGGACTCCATCGTCAGAGAAGTCATTCAGAATTCAAAAGAAGTTC
TAAGTTTATTGCAAGAAAAAAACCCTGCCTTCAAGCCGGTTCTTGCAATTATCCAGGCAGGTGACGACAACTTGA
TGCAGGAAATCAACCAGAATTTGGCTGAGGAGGCTGGTCTGAACATCACTCACATTTGCCTCCCTCCAGATAGCA
GTGAAGCCGAGATTATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTTGCCCTTCAGATCT
CTGAGAACTTGTTTAGCAACAAAGTCCTCAATGCCTTGAAACCAGAAAAAGATGTGGATGGAGTAACAGACATAA
ACCTGGGGAAGCTGGTGCGAGGGGATGCCCATGAATGTTTTGTTTCACCTGTTGCCAAAGCTGTAATTGAACTTC
TTGAAAAATCAGGTGTCAACCTAGATGGAAAGAAGATTTTGGTAGTGGGGGCCCATGGGTCTTTGGAAGCTGCTC
TACAATGCCTGTTCCAGAGAAAAGGGTCCATGACAATGAGCATCCAGTGGAAAACACGCCAGCTTCAAAGCAAGC
TTCACGAGGCTGACATTGTGGTCCTAGGCTCACCTAAGCCAGAAGAGATTCCCCTTACTTGGATACAACCAGGAA
CTACTGTTCTCAACTGCTCCCATGACTTCCTGTCAGGGAAGGTTGGGTGTGGCTCTCCAAGAATACATTTTGGTG
GACTCATTGAGGAAGATGATGTGATTCTCCTTGCTGCAGCTCTGCGAATTCAGAACATGGTCAGTAGTGGAAGGA
GATGGCTTCGTGAACAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCTCTCTCCCCTGTGCCAA
GTGACATTGAGATTTCAAGAGGACAAACTCCAAAAGCTGTGGATGTCCTTGCCAAGGAGATTGGATTGCTTGCAG
ATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTGTCCGTGCTAGAAAGGTTAAAGGATCAAGCAG
ATGGAAAATACGTCTTAGTTGCTGGGATCACACCCACCCCTCTTGGAGAAGGGAAGAGCACAGTCACCATCGGGC
TTGTGCAGGCTCTGACCGCACACCTGAATGTCAACTCCTTTGCCTGCTTGAGGCAGCCTTCCCAAGGACCGACGT
TTGGAGTGAAAGGAGGAGCCGCGGGTGGTGGATATGCCCAGGTCATCCCCATGGAGGAGTTCAACCTTCACTTGA
CTGGAGACATCCACGCCATCACCGCTGCCAATAACTTGCTGGCTGCCGCCATCGACACGAGGATTCTTCATGAAA
ACACGCAAACAGATAAGGCTCTGTATAATCGGCTGGTTCCTTTAGTGAATGGTGTCAGAGAATTTTCAGAAATTC
AGCTTGCTCGGCTAAAAAAACTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAAGAGGAAGTGAGTAAAT
TTGCCCGTCTCGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAATGACCGATTTCTACGAA
AAATAACCATCGGGCAGGGAAACACAGAGAAGGGCCATTACCGGCAGGCGCAGTTTGACATCGCAGTGGCCAGCG
AGATCATGGCGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGGCTGGGAAGGATGGTGGTGGCCA
GTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTTGGGGGTGACAGGTGCTTTGACAGTTTTGATGAAAGATG
CAATAAAACCAAACCTGATGCAGACCCTGGAAGGGACACCTGTGTTCGTGCATGCGGGCCCTTTTGCTAACATTG
CTCACGGCAACTCTTCAGTGTTGGCTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAAGGATTTGTAGTGACCG
AAGCTGGCTTTGGTGCTGACATCGGAATGGAGAAATTCTTCAACATCAAGTGCCGAGCTTCCGGCTTGGTGCCCA
ACGTGGTTGTGTTAGTGGCAACGGTGCGAGCTCTGAAGATGCATGGAGGCGGGCCAAGTGTAACGGCTGGTGTTC
CTCTTAAGAAAGAATATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAACCTCCAGAAGCAAATTC
AGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCTGAATGTCTTCAAGACCGACACCCGCGCTGAGATTG
ACTTGGTGTGTGAGCTTGCAAAGCGGGCTGGTGCCTTTGATGCAGTCCCCTGCTATCACTGGTCCGTTGGTGGAA
AAGGATCGGTGGACTTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAAGAAGCCGATTCCAGTTCCTGTATGATG
TTCAGGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTCTATGGAGCCAAAGATATTGAACTCTCTC
CTGAGGCACAAGCCAAAATAGATCGTTACACTCAACAGGGTTTTGGAAATTTGCCCATCTGCATGGCAAAGACCC
ACCTTTCTCTATCTCACCAACCTGACAAAAAAGGTGTGCCAAGGGACTTCATCTTACCTATCAGTGACGTCCGGG
CCAGCATAGGCGCTGGGTTCATTTACCCTTTGGTCGGAACGATGAGCACCATGCCAGGACTGCCCACCCGGCCCT
GCTTTTATGACATAGATCTTGATACCGAAACAGAACAAGTTAAAGGCTTGTTCTAAGTGGACAAGGCTCTCACAG
GACCCGATGCAGACTCCTGAAACAGACTACTCTTTGCCTTTTTGCTGCAGTTGGAGAAGAAACTGAATTTGAAAA
ATGTCTGTTATGCAATGCTGGAGACGTGGTGAAATAGGCCAAAGATTTCTTCTTCGTTCAAGATGAATTCTGTTC
ACAGTGGAGTATGGTGTTCGGCAAAAGGACCTCCACCAAGACTGAAAGAAACTAATTTATTTCTGTTTCTGTGGA
GTTTCCATTATTTCTACTGCTTACACTTTAGAATGTTTATTTTATGGGGACTAAGGGATTAGGAGTGTGAACTAA
AAGGTAACATTTTCCACTCTCAAGTTTTCTACTTTGTCTTTGAACTGAAAATAAACATGGATCTAGAAAACCAAA
AAAAAAAAAAAAA
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FIGURE 1643

GTCCTCTCTGCTCTCGCGGCCGACTCGCAAGATGGCGCCGCAGAAAGACAGGAAGCCCAAGAGGTCAACCTGGAG
GTTTAATTTGGACCTTACTCATCCAGTAGAAGATGGAATTTTTGATTCTGGAAATTTTGAGCAATTTCTACGGGA
GAAGGTTAAAGTCAATGGCAAAACTGGAAATCTCGGGAATGTTGTTCACATTGAACGCTTCAAGAATAAAATCAC
AGTTGTTTCTGAGAAACAGTTCTCTAAAAGGTATTTGAAATACCTTACCAAGAAATACCTTAAGAAGAACAATCT
TCGTGATTGGCTTCGAGTGGTTGCATCTGACAAGGAGACCTACGAACTTCGTTACTTCCAGATTAGTCAAGATGA
AGATGAATCAGAGTCGGAGGAC**TAG**GCAAAGGCTCCCCTTACAGGGCTTTGCTTATTAATAAAATAAATGAAGTA
TACATGAGAAATACCAAGAAATTGGCTTTTAGTTTATCAGTGAATAAAAAATATTATACTCTTG

FIGURE 1644

SSLLSRPTRKMAPQKDRKPKRSTWRFNLDLTHPVEDGIFDSGNFEQFLREKVKVNGKTGNLGNVVHIERFKNKIT
VVSEKQFSKRYLKYLTKKYLKKNNLRDWLRVVASDKETYELRYFQISQDEDESESED

FIGURE 1645

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CTAACTTTGAGTCAACGCTGACTACAGCACCAGGACTGCTCACTTCCAGCTTCTGCTGACACCTGCCCTCGTTTA
GTCTTTCTTGGTGGCTGCAGGTTCAGTAGAAACTCTATGCCAGGCTTTGTCTCCGGGACATAGGAGAGTGCTGGT
GCTCAGTCATGTTTGTTGAATGAGTAATAAATGGTAAAGGTTGTTGCTGCCCCGAGACGCTTCAAGAGGAAGCAG
CCCCCTAACCCCAGCTGGGAGGAGGAGGAAGAATCCTGGGCTGGTCAGTTGGGGAAGGAGCTGAGCAGGCCGGGC
CACCTGGGCTGACACAGCACGAGCACCACGTGGATGGGATGCCTGCAGTCAGCTGCAGGAGGGCCTCGTCGGGAG
GCCACAGGGCCCCTCTTTTGTCTTGAATGGAGACCTCCAAGGCTCCAGGACATAAAGGGCCTTGGCCAAGCTGTT
CCTGGCCACCTGGCCACATCTCCAGCTGCACCAGTTCTCACCTCCATTCCCCACGGCCCCAGCTGTCAGGTTTTA
GGGTGGCAGAGAGCTCCATGCACCCCCTGGCCTTGGCCTCTTCTGGGGCTTAGAGCTCCAGGACTTTTGGGCCTG
TGCACCCTCAGCGTCCCCTCTTACGACTCCGGCGAGGACGGCCAGGTGCCTGGTGGACTCTTGCACGTGCTCAGC
CACGAGACCTCATGTGCGCTGTCCTGAGCCCACCTGTGTCCTCAG**ATG**TTCCAGGTCATCCAGCCAGAGCGTGCG
CTGTACATCCAGGCCAACAACTGCGTGGAGGCCAAGGACTGGATCGACATTCTCACCAAAGTGAGCCAGTGCAAC
CAGAAGCGCCTCACCGTCTACCACCCGTCCGCCTACCTGAGCGGCCACTGGCTGTGCTGTAGGGCGCCATCCGAC
TCGGCTCCGGGCTGCTCGCCCTGCACTGGCGGCCTCCCAGCCAACATCCAGCTGGACATTGATGGGGACCGTGAG
ACGGAGCGTATCTACTCCCTCTTCAACTTGTACATGAGCAAGCTGGAGAAGATGCAGGAGGCCTGTGGGAGCAAA
TCTGTGTATGACGGCCCGGAGCAGGAGGAGTATTCGACGTTCGTCATTGACGACCCCCAGGAGACCTACAAGACG
CTAAAGCAAGTCATCGCTGGGGTTGGGGCTTTGGAGCAGGAGCACGCCCAGTATAAGAGGGACAAGTTCAAGAAG
ACGAAATATGGAAGCCAGGAGCACCCCATCGGAGACAAGAGCTTCCAGAACTACATCCGGCAGCAGTCCGAGACC
TCCACTCATTCCATT**TAA**AGTCTGCGGGACGCGCCCAGTGGCGCCAGCAAGCTGCCCATGCAAAGCCGCAGCCTT
TGGGAGGGAGAAGAGAAGGAAGAGCGCAGAGCCGGCAAAGTGAGATGCACGCCGTCCCGGCCCATAGACAAGTGG
CGCTGGGGTTTCCCTCTCCCAGAACCGCTGCCACCACCGCCACGCCCTCCGCAGAAAGCCCACCTGGCCCTGTGG
AACGTGTCGTCATTTGATTCTGTGCTTTTTGCTCCTTGTTTGTGGGGATCTGGGGATCAGCTGAAGGATCAGGAA
GTGTGGGCTGTGCCCTAGCCACACCACAGCCAGCCTCAGGGAGCCACGGCCCGTCTAGTCGACTGTGACATGCAC
CTCCGGCCGTGTGTGCGTCAGTCTCGTGCACGTCTGTCTTGCGTTGCACGGTGCGTGTGACGCTGGGCTCTGTGG
CTCTGTGCCCGGGAGGCCTGCTGGCCCCGCCTCGGCTTTCGGCTTCATCACATTGGGAGGTTCAGAGCATTACTC
TCCCACTGTGCCTGCCATCCAGGCAGCCATGGGAGGCGGCCTCCCTGTTCCACTTTCGAGGTTCGTTTGATTCCT
GGCTGAGGGGTCAGTTTTATGGCTGGGAGGTGCAGAATTACACAGAAGTCCCAGTCTGAGGATGTCCTTGGTGCT
TGGGGGATACGGGTTCTGTCCACAGAGTCCCTTGGAGGGAAAGGTGTGGGCTCCAGCTTCTCCAGGCGTCTGCGG
AGCCCACAGTTGAAGCCCACATCGTTTTGCTGTTGAATGGGGTTTAAAATCAGAATTAACATTTGCCACCCCCCG
TGGAAGTTTGAAGATTTTAAAAAATAGAAATGTACATTTTTCAAGCTGTTTTTCTTTATGTTTTTGAAGGACCATT
TTTAATTAGCTCTTTGATACAAAGTAACTCAGAACGTCAAAACCTATACCCACTAAAGGGAAGGCTGCCGGGAAG
GCAAATGGAACAGGAATGGAGCCTGTCTCAGGAAGGCCAGCTGCAGGTCCTCCAGAAAATCAAAGAAGGGAAGAA
ACTCTGAGTTTGAGGTACAGGGGCTTCGGGGTGCAGACGTCCCTCCAGGGCCCATGGTCAGTATTGCACCTGTGT
TATGAACCCCCAGATGCTGTGCAGGGCAGGGGCGGGGGCTGCTGTTTTATTGGGGAGGGGAGCATCCTAAAAATG
GGGTCCAGGCAGACCCCTCCAGACCTCACACTGCCGAGGAGGCCTTTCCCAAAGGGCGTCCTCCCGGGATGCAGA
CGGCAGGTGTGTGGGAAGCGCCGTTTAAATACACAGCACGACGTATCCTTGTACCGACTTCTCCCGGTTCTTGTT
TGAAAATACTGTAGTTCAGGCTCTTGATCTAGATGGCAGATAGGAACTTTCTTGTCACAAAAATACTGGAGGAAA
ATGTTGTAAAAATAGACTTTTGGACACACAGCTGTTGGGGCTGCACTGAGCTGCAATTTTTAACATGGATTTATA
ACTTAATGTTTCTGTTTATAAAATACTAATGATTTGCAATGTATTTTACTGGCCAATTAAAACAGATGTTTTATT
CTTTCTGAA
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FIGURE 1646

MFQVIQPERALYIQANNCVEAKDWIDILTKVSQCNQKRLTVYHPSAYLSGHWLCCRAPSDSAPGCSPCTGGLPAN
IQLDIDGDRETERIYSLFNLYMSKLEKMQEACGSKSVYDGPEQEEYSTFVIDDPQETYKTLKQVIAGVGALEQEH
AQYKRDKFKKTKYGSQEHPIGDKSFQNYIRQQSETSTHSI

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FIGURE 1647A

ATGGCAAAGCAACCTTCTGATGTAAGTTCTGAGTGTGACCGAGAAGGTAGACAATTGCAGCCTGCGGAGAGGCCT
CCCCAGCTCAGACCTGGGGCCCCTACCTCCCTACAGACAGAGCCACAAGACAGGAGCCCAGCACCCATGAGTTGT
GACAAATCAACACAAACCCCAAGTCCTCCTTGCCAGGCCTTCAACCACTATCTCAGTGCAATGGCTTCCATGAGG
CAGGCTGAACCTGCAGATATGCGCCCAGAGATATGGATCGCCCAAGAGTTGCGGCGTATTGGAGACGAGTTTAAC
GCTTACTATGCAAGGAGGGTATTTTTGAATAATTACCAAGCAGCCGAAGACCACCCACGAATGGTTATCTTACGA
CTGTTACGTTACATTGTCCGCCTGGTGTGGAGAATGCATTGACAGGTTCTTTGCGGAGCCGAGATACCATGCAGA
CATTTTGCTTGTTCAAACCAACAAGACCCAGCACCGCGGTCTCCTGGTGCCATTATTATGCAGCCAGCGGTTCTC
TTGTGGAGGGGGCAGGTGACGTTTCAGAAGACACCGAGCTGGATGGGACTACCTTTCTGTTCATCACCACACAGC
AGAATTTCTAATGGAAGTTTGTTGTGAATGTAAAGGAGGGAGCATTCTTTGCTTTTTAATATACAAACCATGGTT
TTTTGGAGCAGGATTTTGTGTAAGAATGGTGTTTACATGCAGTGTGTTTTCCCCCTCACCTTCAATAAGGTTTTT
CAAAAAGGAAATGGAAACTTTTTAACCAATTTGTGAATAACTTTTGTATTAAAATTTTAAGAACCTACGGCCTAT
TCTCAGAGGATTATGTAACCCCTGCAGTGGAAACTGAGCCAGCTAACTTAAAAAGCTGCCTTAGTTTATTTTTAG
AGATTACAGAATTTTTAAACAGGGAGACGTGTGATATACTCCCTCCCTTCCCTACTATTGCCTCTCTGACCTTTT
TAAATTATTTTTAATACCAAAAGAGTTCTTTTGAAATGGAACTGATTAAAAGGGCAGAGGGTCTGTTGCCAGCCT
GCATTGATATACCAGTCCCATTTGTAAATATTTACGTACCTTTATAAATTCAGTTGCATCTGTGGCAAAATTTCA
GACTATTTTTGCGTCTTTCCTCATCACTTTTTGTGATGCAACTCCAGTCTGGACTCAGATGCATAGATTTGGTCC
AGTGTATTTTCATGATAAAGTGAAATTGAGTCAGAACAAGAGTTAATATCTGCCTGTATCTTGCACAGTTCGAGC
GATCTGTTATTAACTGGGAAGCATTTGGTGTTGGTTTTCATTCCATTTCGACGAGCATGTTATTGGGAAGTATTC
TGAAGAGGCAATAGCAGTAATAACAACAGACTTAAGTGCTACGCCCCTTTGTGCTGCTGGCTTTTCTGGTTGCAG
GCTTTCCCATGGTCACAGGATGCACTGTCAGCATCAGGTCCCAGAGGGCCACCGTGTCCATTACAGCAGAGTCCA
GCTGCAGCATCCAGCTCACGCCCTCATGGGAATTGGCACAGGCCTGGGGCAGGGCTTCTGATGGCCATTTGCTTG
GCCTCCTGCATTTTAGTCCAACTCACAGTCCACTAGCTTCACTCCTTTAAATTCACTTTGAAACAGGCCTCATCC
CACTTCCACCAGCACCATAGAAGAATAATTCTGGGCAGAAGTCTGTTTTTTTTCATTTTTCCAGGACAGTTGGAT
ATTGTCAGGCCACTTGTGACCCCAGCCATGTAGTGAGGGTGCTCTTTCTCTGTGCCTGCTCCTTATGAGTGCAGT
GGAAGGAAGCCACACACTGGTCAGTCATTTCAGAGGCAGCAGATGCCCAGGGAGACCCAAGAAAGAGTCAGGTTA
GGGAGCAGTGAAAGTGAGGAGGGAAGACAATTCTGTGAACTCTGTAACTCTTAAAATTTTTGAAAACTCCATCGT
TAAACAACTTTTAAAAGAAATAACTAAATTTTCAAATGAGTAAGCAGTGCCACCAACTAGTGTTTTGCCCGATAG
AAGAGCCAGCATGTTCACGTTATTTAAATTAGGTGGAAAAATCTAAACATTTTTATCTTCATAATTTAAAAAATA
TATATGTATATATTGCATATTCACTTTTTCCTTTAGGTAGAGATGATTTCAATCCAAATACTCTTACTTTAAAAA
ATTTCCTTTCCCCAAGAATCTCCTTGGGACTTTGACTTATTTTTAAAGCTGTGTTGGAGCTCATCTTGTTCCCTG
ATGTGTCTCGAGCCCATTGGTAGGGTCATACAAAGCCCACGGTTACAAGCAGTGGTAGGATTGCAGCCGTGGGCC
TGCTGGACACACACATACACCAAAGATGTATTTGGATCTGGGCACCCCCTCCCAGGATCCCTGTACTCACGTGCC
AGTCTCCTGACTAGAGCACTTTACTCTGTTTCCTCAGCCCTGCAGCCCCTGGGAGCACACACTGGGTGCAGCCCT
GGGCCAGGCACGGGAGGCCCTGCCCTGTGCTGCCCAGGGGCTGTGTGCACCACATGAGCACATTTCCCTCTGGCC
TGGCGGCCTCCAGGCTGGCTGTGGAAACAGTTCCTGAGGAAATTAGAGATTCTATGAATTGTAGGAGTATTAAAG
ACCAGGCTGTTGGCACCAGAACTTAAAGCGATGACTGGATGTCTCTGTACTGTATGTATCTGGTTATCAAGATGC
CTCTGTGCAGAAAGTATGCCTCCCGTGGGTATACGTTTTTACCTTTTTTAAAAAACATTTTTGTAGAAAAAAATAA
TTAAATCCCCTTTTTGGAAACTTACTGCAGGTTTTGTGCCTTGACAACCTCTCCCTATGTGAGGTTTGTAAAAAG
TGTCCTGTGACTTAACACAGAAACGCAATAAACACACACAAAATAGTTTCATGAGTGATTCTTCAGATGCCCTTC
CCAACTGGTTAGTTGATCAAGAATTTTGGGGGTGGGGGTTGCGGAGAAATCAAGTTTAAAATTCCTTCTGATTAA
AAAAATATAGTGGAATACAATTGTCTGCCGTTTCCCCTTCTTAATGTATATATTGTGAGTATTTATTAGATTCGT
AGGTCATATTACTTATCAACTGAGCCAAATGTCTGTGTGCAATTGTGTTTCCTTTACCTTGTAAAATTTTGTACA
GCATAAATAAGTAAAAAAATCACTGTTTTTCTCAACTTTTTCAAAATCAAGGATTGTAAATATTGTAGATTCTTT
TTCTGTGTGATGTGTCCTACTGTTTCATAATGCTGTAACTTGTAGAAATATTGTATATTTATTTCTGCTTATTT
AATGTCTTAATTTCTGAAAAGTATTAACATCCCTGTCTCCCACTCCCCTGCCGTCCCATGAAGTTAACTCCTGAG
AGTTGTCGGGGGTGACTGGAGAGCTCATTGCAGACCACGTGGTCCTCCAGGGTGGCTCTCCACCTTCGGGTCCTG
GTATTTCCAGTCAAGTGGGTTTCAATTCTTGGGCTTTGCCGCCCCTTATGATGAAGTGTGTGTTTGATGCCAGTGA
GAAACTCAGTCTGGCAGGCTACAAAATTCTACTCCAAGAAATACCCAGCAACCTTCTGTTTGTTCCAAAGCAACT

FIGURE 1647B

AGCTTATCATGCAAGCAAATTTTGCTGACTCCAGGCTTTATCTTTAGGAAAACAAAAAAACCAAAGTATTATCAG
CAGGTGGGAAAGATTTTTCTATTGAAAATTTATCCCTGACAACTCAGCGTTTAGAAAAGAAATAAAATGTGCCAC
TTCCAGAGGTGCTGCATTGCAGTTGTTCAGGGCTAGGGCCAGGCAGGACAAGTGAATGGGTGGGACAGGTGGCTC
CTGCCTAAGGACCACCTCAGGCCACTAACCCCTTGTGGACAACTGTGAGTAGCTGGGTTTTCCCCCACCTGCTGT
GCAACTTCCTGTGCTTTGAGGTTGGACTAACTTGTCTTCAGGAGCTAATTAACTGTACAGCCCTCCCCACGCCCC
ACCCATACGGTCACTGCATTTGGTCAGCCTGCTTCTTCAGGTCGATGCCCTCCTTCTGATACTCCATCTCCTTCA
GGGGAGGTTGGGGCCCCACTGGACTGGGTGTCAAGATGTGAAAGCTTATGGGAGCTTTAAGGAGACTTCATGGTG
GTTCCATGCAGGTGGTTCTGCCATCCCTGCTGATTTAGCCTGGTGCCTGTGTGTGTCCACTCACGTACACGTGGG
GTGGGGGAAACGTGTCTACAGATGACGCTAAATCAGTTGGGGTCTACTCTAAACAGCATTGTGTGTAAGAAGCAT
CCTCAAGCTCCCAGTTAAGTAACTTGACTACTTTTATTTGGGAATTTCAGACTATAGAAGCTCTCTTATGTTTTA
TGTCCAGATTCTGTGACCACTAGTTACTGTATCAGAACTCATCAGGTACCCACTTATAAATAGCACTGATCTGGC
TGTATACTGATCCATCACTAACCTGTTTTCTAGGACCCAGCGTATGTAGCATTTGTATTGCAGTTTCCCTGGCTT
ACTTGTGTTTTGCACTGATGAATTTTGACAGGGTAATTGCCACTTTACTTGTGCAATACTGCTGTAAATAACTGC
AGATTTTTAAACAATCTTTTATGTTAATTTTATAAAAATAAAACTTTCAACTAGTTTTAAACAAAAC

FIGURE 1648

MAKQPSDVSSECDREGRQLQPAERPPQLRPGAPTSLQTEPQDRSPAPMSCDKSTQTPSPPCQAFNHYLSAMASMR
QAEPADMRPEIWIAQELRRIGDEFNAYYARRVFLNNYQAAEDHPRMVILRLLRYIVRLVWRMH

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FIGURE 1649

GTGCAGTTGCGGCTCCAGGGCC**ATG**GCGGAGGAGCAGGGCCGGGAACGGGACTCGGTTCCCAAGCCGTCGGTGCT
GTTCCTCCACCCAGACCTGGGCGTGGGCGGCGCTGAGCGGCTGGTGTTGGACGCGGCGCTGGCGCTGCAGGCGCG
CGGGTGTAGCGTGAAGATCTGGACAGCGCACTACGACCCGGGCCACTGTTTCGCCGAGAGCCGCGAGCTACCGGT
GCGCTGTGCCGGGGACTGGCTGCCGCGAGGCCTGGGCTGGGGCGGCCGCGGCGCCGCCGTCTGCGCCTACGTGCG
CATGGTTTTCCTGGCGCTCTACGTGCTGTTCCTCGCCGACGAGGAGTTCGACGTGGTAGTGTGCGACCAGGTGTC
TGCCTGTATCCCAGTGTTCAGGCTGGCTAGACGGCGGAAGAAGATCCTATTTTACTGTCACTTCCCAGATCTGCT
TCTCACCAAGAGAGATTCTTTTCTTAAACGACTATACAGGGCCCCAATTGACTGGATAGAGGAATACACCACAGG
CATGGCAGACTGCATCTTAGTCAACAGCCAGTTCACAGCTGCTGTTTTTAAGGAAACATTCAAGTCCCTGTCTCA
CATAGACCCTGATGTCCTCTATCCATCTCTAAATGTCACCAGCTTTGACTCAGTTGTTCCTGAAAAGCTGGATGA
CCTAGTCCCCAAGGGGAAAAAATTCCTGCTGCTCTCCATCAACAGATACGAAAGGAAGAAAAATCTGACTTTGGC
ACTGGAAGCCCTAGTACAGCTGCGTGGAAGATTGACATCCCAAGATTGGGAGAGGGTTCATCTGATCGTGGCAGG
TGGTTATGACGAGAGAGTCCTGGAGAATGTGGAACATTATCAGGAATTGAAGAAAATGGTCCAACAGTCCGACCT
TGGCCAGTATGTGACCTTCTTGAGGTCTTTCTCAGACAAACAGAAAATCTCCCTCCTCCACAGCTGCACGTGTGT
GCTTTACACACCAAGCAATGAGCACTTTGGCATTGTCCCTCTGGAAGCCATGTACATGCAGTGCCCAGTCATTGC
TGTTAATTCGGGTGGACCCTTGGAGTCCATTGACCACAGTGTCACAGGGTTTCTGTGTGAGCCTGACCCGGTGCA
CTTCTCAGAAGCAATAGAAAAGTTCATCCGTGAACCTTCCTTAAAAGCCACCATGGGCCTGGCTGGAAGAGCCAG
AGTGAAGGAAAAATTTTCCCCTGAAGCATTTACAGAACAGCTCTACCGATATGTTACCAAACTGCTGGTA**TAA**TC
AGATTGTTTTTAAGATCTCCATTAATGTCATTTTTATGGATTGTAGACCCAGTTTTGAAACCAAAAAAGAAACCT
AGAATCTAATGCAGAAGAGATCTTTTAAAAAATAAACTTGAGTCTTGAATGTGAGCCACTTTCCTATATACCACA
CCTCCCTGTCCACTTTTCAGAAAAACCATGTCTTTTATGCTATAATCATTCCAAATTTTGCCAGTGTTAAGTTAC
AAATGTGGTGTCATTCCATGTTCAGCAGAGTATTTTAATTATATTTTCTCGGGATTATTGCTCTTCTGTCTATAA
ATTTTGAATGATACTGTGCCTTAATTGGTTTTCATAGTTTAAGTGTGTATCATTATCAAAGTTGATTAATTTGGC
TTCATAGTATAATGAGAGCAGGGCTATTGTAGTTCCCAGATTCAATCCACCGAAGTGTTCACTGTCATCTGTTAG
GGAATTTTTGTTTGTCCTGTCTTTGCCTGGATCCATAGCGAGAGTGCTCTGTATTTTTTTAAGATAATTTGTAT
TTTTGCACACTGAGATATAATAAAAGGTGTTTATC

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FIGURE 1650

MAEEQGRERDSVPKPSVLFLHPDLGVGGAERLVLDAALALQARGCSVKIWTAHYDPGHCFAESRELPVRCAGDWL
PRGLGWGGRGAAVCAYVRMVFLALYVLFLADEEFDVVVCDQVSACIPVFRLARRRKKILFYCHFPDLLLTKRDSF
LKRLYRAPIDWIEEYTTGMADCILVNSQFTAAVFKETFKSLSHIDPDVLYPSLNVTSFDSVVPEKLDDLVPKGKK
FLLLSINRYERKKNLTLALEALVQLRGRLTSQDWERVHLIVAGGYDERVLENVEHYQELKKMVQQSDLGQYVTFL
RSFSDKQKISLLHSCTCVLYTPSNEHFGIVPLEAMYMQCPVIAVNSGGPLESIDHSVTGFLCEPDPVHFSEAIEK
FIREPSLKATMGLAGRARVKEKFSPEAFTEQLYRYVTKLLV

FIGURE 1651A

CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAAACTGATGGGGGTTTTTGCTGTCCCTCCCCTCAGC
GCCGACACC**ATG**TGGATCCAGGTTCGGACCATGGACGGGAGGCAGACCCACACGGTGGACTCGCTGTCCAGGCTG
ACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGGCAAACAGATGGAGGACGGCCATACCCTCTTCGACTACGAGGTCCGCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGCTCCCCCACAGCACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCCTGGGCCAGAGTGAGTCAGACAAGTCCTCCACCCACGGCGAGGCGGCCGCCGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTCGATGCTCGGGACACGAAC
ATGGGGGCGTGGTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCCCTCCCGGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGGCGCTGGAGGAGGACGTCATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAACTCCAGGGACGTCCGAGCGCGCGCCCGCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACTCTACGCCAACGTGGTGCTGGGGGATGATTCTCTGAACGACTGTCGGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCCGGGTGAAGGGAGCCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCCGTCCTGCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCGGGTCTGCGCCTGCCACCTGTGCGGG
GGCCGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCGACATGGCCTTCCACATCTACTGCCTGGACCCG
CCCCTCAGCAGTGTTCCCAGCGAGGACGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGAGCAAGAAGAAGGCGAAGATGGCCTCGGCCACATCGTCCTCACAGCGGGACTGG
GGCAAGGGCATGGCCTGTGTGGGCCGCACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCG
GGGATCCCCGTGGGCACCATGTGGCGGTTCCGAGTCCAGGTCAGCGAGTCGGGTGTCCATCGGCCCCACGTGGCT
GGCATACACGGCCGGAGCAACGACGGAGCGTACTCCCTAGTCCTGGCGGGGGGCTATGAGGATGACGTGGACCAT
GGGAATTTTTTCACATACACGGGTAGTGGTGGTCGAGATCTTTCCGGCAACAAGAGGACCGCGGAACAGTCTTGT
GATCAGAAACTCACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTCGGGGAAGCCGGTCAGGGTGGTGCGCAATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTTGTGAAATACTGGCCCGAGAAGGGGGAAGTCCGGG
TTTCTCGTGTGGCGCTACCTTCTGCGGAGGGACGATGATGAGCCTGGCCCTTGGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGGCTGACCATGCAGTATCCAGAAGGCTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGGGCTTCGCGTCCCCCAGGACGGGCAAGGGCAAGTGG
AAGCGGAAGTCGGCAGGAGGTGGCCCGAGCAGGGCCGGGTCCCCGCGCCGGACATCCAAGAAAACCAAGGTGGAG
CCCTACAGTCTCACGGCCCAGCAGAGCAGCCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGTC
CTGGCGTCACTCAAGGACCGGCCGGCGAGCGGCAGCCCGTTCCAGTTGTTCCTGAGTAAAGTGGAGGAGACGTTC
CAGTGTATCTGCTGTCAGGAGCTGGTGTTCCGGCCCATCACGACCGTGTGCCAGCACAACGTGTGCAAGGACTGC
CTGGACAGATCCTTTCGGGCACAGGTGTTCAGCTGCCCTGCCTGCCGCTACGACCTGGGCCGCAGCTATGCCATG
CAGGTGAACCAGCCTCTGCAGACCGTCCTCAACCAGCTCTTCCCCGGCTACGGCAATGGCCGG**TGA**CTCCAAGC
ACTTCTCGACAGGCGTTTTGCTGAAAACGTGTCGGAGGGCTCGTTCATCGGCACTGATTTTGTTCTTAGTGGGCT
TAACTTAAACAGGTAGTGTTTCCTCCGTTCCCTAAAAAGGTTTGTCTTCCTTTTTTTTTATTTTTATTTTTCAAA
TCTATACATTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTAGTTCTTTGAAAA
CATAAAAGCCTGCAATTTCTCGACAAAACAACACAAGATTTTTTAAAGATGGAATCAGAAACTACGTGGTGTGGA
GGCTGTTGATGTTTCTGGTGTCAAGTTCTCAGAAGTTGCTGCCACCAACTCTTTAAGAAGGCGACAGGATCAGTC
CTTCTCTAGGGTTCTGGCCCCCAAGGTCAGAGCAAGCATCTTCCTGACAGCATTTTGTCATCTAAAGTCCAGTGA
CATGGTTCCCCGTGGTGGCCCGTGGCAGCCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAAGGA
AAAGAGGAAACATCTCGGGCCTAGTTCAAACCTTTGCCTCAAAGCCATCCCCCACCAGACTGCTTAGCGTCTGAG
ATCCGCGTGAAAAGTCCTCTGCCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTCTGC
TCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCACGGACGGACGCCAGCACACGAAGTCA
CGTGCAAGTGCCTTTGATTCGTTCCTTCTTTCTAAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAAAAT
GTCAACCAGATTCTAGAAACTGCGGTCATCCAGTTCTTCCTGACACCGGATGGGTGCTTGGGAACCGTTTGAGCC
TTATAGATCATTTACATTCAATTTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGGTTTTTTTTTAATTTTTTT
TTCTCTTAATGAACACATTTTCTAAATGAATTTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAACGTT
AGGGTTTGGTTGTTTTTGTTTTTGTATTTTTTTTCTTTTGAAAGGGTTTGTTAATTTTTCTAATTTTACCAAAGT

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FIGURE 1651B

TTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAAACTGGAGCAATGTTATTTT
TAAAGGGTTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTGTAGGCT
TTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGATTGAAAAAAAAAAA
AAA

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FIGURE 1652

MWIQVRTMDGRQTHTVDSLSRLTKVEELRRKIQELFHVEPGLQRLFYRGKQMEDGHTLFDYEVRLNDTIQLLVRQ
SLVLPHSTKERDSELSDTDSGCCLGQSESDKSSTHGEAAAETDSRPADEDMWDETELGLYKVNEYVDARDTNMGA
WFEAQVVRVTRKAPSRDEPCSSTSRPALEEDVIYHVKYDDYPENGVVQMNSRDVRARARTIIKWQDLEVGQVVML
NYNPDNPKERGFWYDAEISRKRETRTARELYANVVLGDDSLNDCRIIFVDEVFKIERPGEGSPMVDNPMRRKSGP
SCKHCKDDVNRLCRVCACHLCGGRQDPDKQLMCDECDMAFHIYCLDPPLSSVPSEDEWYCPECRNDASEVVLAGE
RLRESKKKAKMASATSSSQRDWGKGMACVGRTKECTIVPSNHYGPIPGIPVGTMWRFRVQVSESGVHRPHVAGIH
GRSNDGAYSLVLAGGYEDDVDHGNFFTYTGSGGRDLSGNKRTAEQSCDQKLTNTNRALALNCFAPINDQEGAEAK
DWRSGKPVRVVRNVKGGKNSKYAPAEGNRYDGIYKVVKYWPEKGKSGFLVWRYLLRRDDDEPGPWTKEGKDRIKK
LGLTMQYPEGYLEALANREREKENSKREEEEQQEGGFASPRTGKGKWKRKSAGGGPSRAGSPRRTSKKTKVEPYS
LTAQQSSLIREDKSNAKLWNEVLASLKDRPASGSPFQLFLSKVEETFQCICCQELVFRPITTVCQHNVCKDCLDR
SFRAQVFSCPACRYDLGRSYAMQVNQPLQTVLNQLFPGYGNGR

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FIGURE 1653

<u>ATG</u>AAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCA
AGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATGTAAGAGCTTTAAATGCTACCAAACTG
GAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCAT
CCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAT
TGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATGTACTCGCTTTTGTGGGACTTCTTTTTTC
ACTGTTGGTGATGACAAAACTGTGAAGCAGTGGAAAATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTA
CATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGCCACATGTGGA
CAGCAAGTAGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTATAAGT
AGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAATATAGTACTGTACGAT
ATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAACAAATACAATCTGTTGGAACCCTATGGAA
GCTTTCATTTTTACAGCAGCAAATGAAGATTATAACTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTA
ATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCT
AGTTTCGATAAATCTATTCGAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAATG
CAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATGAAATGAACATTCGC
CTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGAGAAAAAGCAGCCAAGGATTATAACCAG
AAATTGAAGGAGAAATTTCAGCATTATCCTCATATAAAACGTATAGCTCGTCATCGACATCTACCAAAATCTATC
TATAGCCAGATTCAGGAACAGCGCATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGC
AAGCCTGGATCTGTGCCACTTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAA<u>TAA</u>

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FIGURE 1654

MKVKMLSRNPDNYVRETKLDLQRVPRNYDPALHPFEVPREYVRALNATKLERVFAKPFLASLDGHRDGVNCLAKH
PEKLATVLSGACDGEVRIWNLTQRNCIRTIQAHEGFVRGICTRFCGTSFFTVGDDKTVKQWKMDGPGYGDEEEPL
HTILGKTVYTGIDHHWKEAVFATCGQQVDIWDEQRTNPICSMTWGFDSISSVKFNPIETFLLGSCASDRNIVLYD
MRQATPLKKVILDMRTNTICWNPMEAFIFTAANEDYNLYTFDMRALDTPVMVHMDHVSAVLDVDYSPTGKEFVSA
SFDKSIRIFPVDKSRSREVYHTKRMQHVICVKWTSDSKYIMCGSDEMNIRLWKANASEKLGVLTSREKAAKDYNQ
KLKEKFQHYPHIKRIARHRHLPKSIYSQIQEQRIMKEARRRKEVNRIKHSKPGSVPLVSEKKKHVVAVVK

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FIGURE 1655

GGCACGAGGGTGGCGTGGAGTGGCGTGGCGTGGCGGGGTCTCGCGGCGCGGGCGCGCACCCGGAGCTGTGGACGG
AGAGTGCCTCCCTCTGGCCTCAGTTTCCTCATGTTGTAGTAGCGGAGCATGGCCCGGACCGGGCCCCCGAGACCG
CCCCGTGCAACCTCACCGCCAGCCTGGGGGCCTCAGCGACTGGGACGGGACCAAGGGGCTCGGGGATTCTCCCTG
CCCCCGGCCCTGGTGCGTGACTGACCCTCCTGTTCCCAGAGCCCCCAGCGCAGGCCGGG**ATG**TTCGTCCTGGTGG
AAATGGTGGACACCGTCCGGATCCCCCCTTGGCAGTTTGAGAGGAAGCTCAACGACTCCATTGCCGAGGAGCTGA
ACAAGAAGTTGGCCAACAAGGTCGTGTACAACGTGGGACTCTGCATTTGTCTGTTTGATATCACCAAACTGGAGG
ATGCCTATGTATTCCCTGGGGATGGCGCATCACACACCAAAGTCTCTCTAGGCTTCTTCGATGACATTCTCATCC
CCCCAGAGTCACTGCAGCAGCCAGCCAAGTTCGACGAAGCGGAGCAGGTGTGGGTGTGGGAGTACGAGACGGAGG
AAGGAGCACACGACCTCTACATGGACACCGGCGAGGAGATCCGCTTCCGGGTGGTGGACGAGAGCTTTGTTGACA
CGTCCCCCACAGGGCCCAGCTCAGCAGATGCCACCACTTCCAGTGAGGAGCTGCCAAAGAAGGAGGCTCCGTACA
CGCTTGTGGGATCCATCAGTGAGCCAGGCCTGGGCCTTCTCTCCTGGTGGACCAGCAAC**TAG**CCCTGGGGCTGGA
CAGTGGACCCTACCAGCCTGCGGGAAGGTGGTATGGCCGGCTGTGAAGACAACAGCAGCTGAGGCCGATGCTAAG
GAGATAGTGTCTCGAGCTGGACAGTGAGGCAAGGCCAGGAGTGCCCACCAGCTTGCCCCGCTCCTCCACCATCTA
GGCCCTGCTCCTCCTTCACTGCAGTGATGGATCCATCTGTGGCTGTGGCTGTTGGGCCTCCACTGACCTTGACTG
AAAAGACCCTTCCTGGACCCTGGACTTGACAACAAACGGCACAGACACCAATCACTCACAGAACAGTCACTGGTT
TTGGATTCTTGTTTTCCTTGCAAGAACAAAAGGTTCTCTAGAATCCTTCAGCCACCAATGAAATGATCAGGCAGG
AGAAAAACTTTAGATGGGAGTCTTGTCATCAAAAATAAATACAGTTGCATGGAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

FIGURE 1656

MFVLVEMVDTVRIPPWQFERKLNDSIAEELNKKLANKVVYNVGLCICLFDITKLEDAYVFPGDGASHTKVSLGFF
DDILIPPESLQQPAKFDEAEQVWVWEYETEEGAHDLYMDTGEEIRFRVVDESFVDTSPTGPSSADATTSSEELPK
KEAPYTLVGSISEPGLGLLSWWTSN

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FIGURE 1657

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GCGGCGCAGCGCGCGGCGCAGCGCGCGGCGTCAGTCTTGGCTGGCAGACCTGTACTCCGTACTCCGTACTTCGTA
GTCGCAGCGGCGCGGTCTTCGGCAGTCTAGTCATCCACCGCCATCCTGGGCCCCACGTGTTGCCTGACCATTCCT
GAGCCCAGGTGGGAGCCGTGGCTGAGGTGACGGTCTCAAAGTGGAAGAGCTTACTGTCACAGCAACTCCTTTGCA
AGATGCCCCGGCCAGGAATAGTTGCTGAACACCCCAGGCCTGCTGAGGTCCCTCCTTGAGTCTCATGTTCAAGCA
GTCTTTGTCCATGAAACTGGGAGGCGACCGTGTTAGCTGCCAGTTCCTGACAGCCACCTCTCACCAGTGGCTTCA
CTCTGTGTCCCTGACCCAGCACATGGCACAAGAGTGCCTGCCATCCGTCAGTGTTTCTACAGCAGCAATCCCTAG
ATGCTGGAGCTAGAGGGGACCTGACCTGAGAGAAGATACCTTCAGTGGCTGCCAGGCTGTTCCTTGGAACCTGTG
CAGGGATGAGGCCTGCCTGTGTTAATACACCTAGTGAGGAGTGGAGCTGAATTTGAATGCAAGCCTTGGCACCTT
AATTGAGCAAGTTTGAAACCTCGCTTGTTGCCCTTCTGGAAGGAGTCAGGAATTTCCAGTTCTGGGCCTGGGCTG
TGGGTCTGGCAGACAGACCTCTGGCCCTAGGTTTGGGTGCCAGGTTCTCTGCTTCCAGAATGAGAAGCTTTGCTG
TGCACCAGGACCTGGGCCCTTTTGGTATCTCCTGAATGACACACAAGGGATATTTAATAAATATGCATTTAAATA
TGTG
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FIGURE 1658

MKLGGDRVSCQFLTATSHQWLHSVSLTQHMAQECLPSVSVSTAAIPRCWS

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FIGURE 1659

CGCTGTAATTTTCACAATATTTTAATTCTGTTCTGAGATCTACAAATATCTCTACATAACACCAAAGCCAGTGAT
TTAATAAATAAGAGGAATGTATATATCGCTTTGCAAAAAAATGCCTGATACATTTATCTCTATATAAGATATTTG
TAGAATCAGTTTCCCAAGGCTCACGAAACTAAAGTGCACACACACACACTTTCCAATACCAGTCGGCATTACCCG
CCCTTTGGTTTCTTTTGCTTTGGATTTCAGCCCCCATATCATTTCTGGTAACAGAGCACAGCAATAGAATTTCTG
GGAAGCAGACCTTGTGAATCGTGCCTGTGTCTTAATTCACAAAGGGTAAGTGAATGCCGTTGAAAGGTGTTTCAT
ACACTTACCCCAGAAATGAGAGCCTGTCTCATGCAGGAGTCGGGAGGCAGCGATGTCAGGGAACTGGGACTATGT
CTTTATGACTGTGATGGTGGTAACCAAGTGGGGTGGTCCCCTCTGGGGAGCTGAGTAAGAACGCAAAGGTTTGGG
TCAGTGATTAGGAAGACTATAATATGACTTTGTGCATGCCCGGGAGGGCTGCCTTGTAGAGAGGATGTGAGCAGC
TTAGTCGCTCATCTGGCCCTGTGATTCAGGCTTATGGAGCGTTAAGAATAACAGCTGTCAAATGGCCTAGACATG
GTTAATGCAATTTGTTGCTAGTGGAAATCCTGAATTGCTTCCTTTCTGTGATCACTGCTACTTCTTAAGATGCTT
TTGATGAATGTCATCTGCCTACAAGTTGACACCTGATAACTTCTCCCTGATGGGTTTCCGAACTGGCTGACTTA
ACCAAAAAGCCAGCTCTTGCCATCTATCTTGCATTAAAAGGAATTCCTGAGGCTCCTAAGGGGTCAGCTGCCCCA
CTCCTGACTTTTTTATTTTTAATGGTCTATACCTTCTGCAACATTTTTGTTTATGGCCATTTGAATAGTTGGACT
TTGACTCCTCACTTGTGAATAATAGGAATATATTTTGCAGAATCTAACATAATACCCTTAAAATTCATACTGGAC
AACCATCAGTGTGATGTATAGTATCTGGTGTAAACAAATTTTATTCAGCATATTAAATTATTCTGTGTTTTGCTT
TTCCTTGATATGTAGGAGGTGCACCAGTACCAGTTTTTCTCTTGTGGTGGCTTAAAACGCTGATTGCCATTTGCA
TTGTCTACTGAAAAGCTGTGGCAGCGAGTGGTATTATTGACCATGTGTTCTCATGTCTTTTTGCAGATTTAAAGG
TTTTATTGTAGTGTCCATTTAATATCTGCATGTGTGTTTAATCTCTGAATACCATGTAATTAAACTGATTAACTT
GTGATGGTGATGGTGATTAGCACACACTAAAAACCCAATGAAGCAATTGTCTCCCTCTTCTTAACTGGAAATCAC
ACTTGTGAGGTATGGTATCCATTATCAACAGTGGATTCATGATTGACTTCATATTTTGTGTATCTGGTTATAAAT
TTTGTATAGCATTTAATTTGGCACTTAATATAAATCCATTTGATTTGAATAGTGTGTGTGTGTACATGGTGTGTG
TGTGTGTGCACTTTAGTTTCGTGAGCCTTGGGAAACTGATTCTACAAATATCTTATATAGAGATAAATGTATCAG
GCATTTTTTTGCAAAGCGATATATACATTCCTCTTATTTATTAAATCACTGGCTTTGGTGTTATGTAGAGATATT
TGTAGATCTCAGAACAGAATTAAAATATTGTGAAAATTACAGCTTAATAA**ATG**TTTATTGTAATTTTGTTGTATG
GACTTTTAAAATATATCTCATCACTTCTAACCAAA

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FIGURE 1660

MFIVILLYGLLKYISSLLT

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FIGURE 1661

GCGCGCTGTCCTGGCTCGGGAGATGGACGGCCGCCGTGTTTTGGGCCGGTTCTGGAGTGGCTGGCGGCGGGGCCT
GGGTGTCCGCCCAGTGCCCGAGGACGCAGGCTTTGGCACCGAAGCCCGGCATCAGAGGCAACCCCGCGGCTCCTG
CCAACGGTCGGGGCCCCTCGGGGACCAGCCCTTCGCGGGGCTGCTGCCAAAAAACCTCAGTCGGGAGGAGCTGGT
TGATGCGCTGCGGGCAGCCGTGGTGGACCGGAAAGGACCTCTAGTGACGTTGAACAAGCCACAGGGTCTACCAGT
GACAGGAAAACCAGGAGAGCTGACGTTGTTCTCAGTGCTGCCAGAGCTGAGCCAGTCCCTAGGGCTCAGGGAGCA
GGAGCTTCAGGTTGTCCGAGCATCTGGGAAAGAAAGCTCTGGGCTTGTACTCCTCTCCAGCTGTCCCCAGACAGC
TAGTCGCCTCCAGAAGTACTTCACCCATGCACGGAGAGCCCAAAGGCCCACAGCCACCTACTGTGCTGTCACTGA
TGGGATCCCAGCTGCTTCTGAGGGGAAGATCCAGGCTGCCCTGAAACTGGAACACATTGATGGGGTCAATCTCAC
AGTTCCAGTGAAGGCCCCATCCCGAAAGGACATCCTGGAAGGTGTCAAGAAGACTCTCAGTCACTTTCGTGTGGT
AGCCACAGGCTCTGGCTGTGCCCTGGTCCAGCTGCAGCCACTGACAGTGTTCTCCAGTCAACTACAGGTGCACAT
GGTACTACAGCTCTGCCCTGTGCTTGGGGACCACATGTACTCTGCCCGTGTGGGCACTGTCCTGGGCCAGCGATT
TCTGCTGCCAGCTGAGAACAACAAGCCCCAAAGACAGGTCCTGGATGAAGCCCTCCTCAGACGCCTCCACCTGAC
CCCCTCCCAGGCTGCCCAGCTGCCCTTGCACCTCCACCTACATCGGCTCCTTCTCCCAGGCACCAGGGCCAGGGA
CACCCCTGTTGAGCTCCTGGCACCACTGCCCCCTTATTTCTCCAGGACCCTACAGTGCCTGGGGCTCCGCTTACA
A**TAG**TCCTCCCTCTGTTCCTGACCCCCTCACACACACTGGAAAGTGAGGGTGGGGGCTCTGCAGTCAGACAAACC
TAAGATCACATCCTGGACAGGCCACTTGCTTGCTGTGTGGCATTGGGCAAGTAACTTTACCTCTCTGGACTTGTG
ATAATAAAAGTTCCTACCTCAAAAAAAAAA

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FIGURE 1662

RAVLAREMDGRRVLGRFWSGWRRGLGVRPVPEDAGFGTEARHQRQPRGSCQRSGPLGDQPFAGLLPKNLSREELV
DALRAAVVDRKGPLVTLNKPQGLPVTGKPGELTLFSVLPELSQSLGLREQELQVVRASGKESSGLVLLSSCPQTA
SRLQKYFTHARRAQRPTATYCAVTDGIPAASEGKIQAALKLEHIDGVNLTVPVKAPSRKDILEGVKKTLSHFRVV
ATGSGCALVQLQPLTVFSSQLQVHMVLQLCPVLGDHMYSARVGTVLGQRFLLPAENNKPQRQVLDEALLRRLHLT
PSQAAQLPLHLHLHRLLLPGTRARDTPVELLAPLPPYFSRTLQCLGLRLQ

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FIGURE 1663

GGCACGAGGGTGGTGAGGCCTACAGAAGCGGCCTTCAGCTGGACCTTGGTCTCCCCGCCGGACTTCGAGGGTGTC
ATCGCCGCCCCTGTTGGGGGTGAGCGCCGCGCGGCTGCAGC**ATG**CCTCACAGGAAGAAAAAGCCCTTTATAGAGA
AGAAGAAAGCTGTGTCTTTTCACTTGGTCCACCGGAGCCAACGAGATCCTTTAGCAGCAGATGAGAGTGCACCCC
AGAGGGTTCTATTGCCCACACAAAAAAATAGACAATGAAGAAAGGCGAGCAGAACAGAGGAAGTATGGAGTGTTCT
TTGATGACGACTATGACTACCTGCAGCACCTGAAGGAACCATCTGGGCCTTCAGAGCTTATTCCCTCAAGTACCT
TCAGTGCACACAACAGGAGAGAGGAGAAAGAAGAAACGCTAGTAATTCCAAGCACTGGAATTAAGTTGCCTTCAT
CAGTGTTTGCTTCAGAGTTTGAGGAAGATGTTGGATTGTTAAATAAAGCAGCTCCAGTTTCAGGACCTCGACTGG
ATTTTGATCCTGACATTGTTGCAGCTCTTGATGATGATTTTGACTTTGATGATCCAGATAATCTGCTTGAGGATG
ACTTTATTCTTCAGGCCAATAAGGCAACAGGAGAGGAAGAGGGAATGGATATACAGAAATCTGAGAATGAAGATG
ACAGCGAGTGGGAAGATGTGGATGATGAGAAGGGAGATAGCAATGATGACTATGACTCTGCAGGCCTATTGTCAG
ATGAAGACTGTATGTCTGTGCCCGGAAAAACTCACAGAGCTATAGCAGATCACTTGTTCTGGAGTGAGGAAACAA
AGAGTCGCTTCACGGAGTATTCGATGACTTCCTCAGTCATGAGGAGAAATGAACAGCTGACCCTACATGATGAGA
GGTTTGAGAAGTTTTATGAGCAATATGATGATGATGAAATTGGAGCTCTGGATAATGCAGAATTGGAAGGTTCTA
TTCAAGTGGACAGCAATCGCTTACAGGAAGTTTTGAATGACTACTATAAAGAGAAGGCAGAGAATTGTGTAAAAT
TGAATACCCTTGAACCCTTGGAGGATCAAGACCTGCCAATGAATGAGCTTGATGAGTCTGAGGAGGAAGAAATGA
TTACTGTAGTCCTTGAAGAAGCCAAAGAGAAGTGGGATTGTGAATCTATTTGTAGTACATACTCAAATTTATATA
ACCATCCACAGCTTATCAAGTATCAACCAAAGCCCAAACAAATTCGAATATCTTCTAAAACAGGAATACCTCTCA
ATGTCTTACCAAAGAAAGGACTCACAGCAAAGCAAACTGAAAGAATACAGATGATTAATGGCAGTGATCTTCCTA
AAGTATCAACTCAGCCACGTTCTAAAAATGAAAGCAAAGAAGATAAAAGAGCAAGAAAGCAAGCTATAAAAGAAG
AGCGCAAGGAACGAAGAGTGGAGAAGAAAGCTAACAAATTAGCATTTAAACTGGAGAAAAGAAGGCAAGAAAAAG
AGCTGCTGAACTTGAAGAAGAATGTTGAGGGTCTAAAGCTA**TAG**ACAGTGGAGCATACAGGGCAAGGCACTTTAT
TAGGGGCTCCTCATCTTTGGTTATTGACTAGAAACTTCAGAAAGACAAAACTGTTTGCCATTTTTACTGGCAGAT
AAGAGGAAAATACAATATTTGTATTATTTTTATACTAGTAAGTGTCCCCTGCCAACCATCTTGTAAATATTGTAA
TACTTTAATTTTTAATATTATAAGCTTACATTTGCTCTGAAGTAAATGACTTCATGAATGTGAAATGTTTGATAA
ATTAAAGGAAAATATCTTCATAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1664

MPHRKKKPFIEKKKAVSFHLVHRSQRDPLAADESAPQRVLLPTQKIDNEERRAEQRKYGVFFDDDYDYLQHLKEP
SGPSELIPSSTFSAHNRREEKEETLVIPSTGIKLPSSVFASEFEEDVGLLNKAAPVSGPRLDFDPDIVAALDDDF
DFDDPDNLLEDDFILQANKATGEEEGMDIQKSENEDDSEWEDVDDEKGDSNDDYDSAGLLSDEDCMSVPGKTHRA
IADHLFWSEETKSRFTEYSMTSSVMRRNEQLTLHDERFEKFYEQYDDDEIGALDNAELEGSIQVDSNRLQEVLND
YYKEKAENCVKLNTLEPLEDQDLPMNELDESEEEMITVVLEEAKEKWDCESICSTYSNLYNHPQLIKYQPKPKQ
IRISSKTGIPLNVLPKKGLTAKQTERIQMINGSDLPKVSTQPRSKNESKEDKRARKQAIKEERKERRVEKKANKL
AFKLEKRRQEKELLNLKKNVEGLKL

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FIGURE 1665

TGCTGCTGACTATTGTTGGTGAAATATTTTCACCAACTAAAGGAAATAGACATGAAAAACAATGACAATATTCAA
TCACAGCAGTAAGATGGCCTTTGTGTTGCAATCCCTTCTACCCCATCAGACAGCTCCTATCTAACATTCCTCTAT
ACAGTTCATTTCTCTACAAGCATTTTCTGATTCTTAGATAACTCCAATTTTTGCTACCTTTATCTTAGACATTAA
CACTATAGCCCAAAGCATAGTTACTTTGCTAAATCAGAAAGCAACTGAGTTCTTTGTTTTCTCCTCAAATAGAAT
GGGGAACGTACACAACATTCTCTTAAGTTCTAACAGGAATACCATTGTGGTGATAGAACTCAGGGCTGCTAAGGC
AAATACTCTAGACCCATAGTTCTTTTTAGTTAGATGTATTGAAACAGACAAAAATATTAACATCAGAAAAAGCTC
TTGCCAATTAGAGGATCTTCTTAATCTTCAGCAATTAAGTTTGGGGTTTGAGCGGGGCAGGTCATTGTTACAACA
GAAGTAAATTTGGCATCTATAGAAATCAATTATGATTTTTGAAAGATTTATCTAAATATATCTATATAGCATCTC
TTTAATGTTAGTCATTTATTAGAAAGATCCTTTATCCTGATTGCTTAAACCTTTCAATAAATTGCACTTTAAAG
GATTATAAATAATCCATTTAAAAATTCAAGTACACACATCAGTGTTGGTTACT**ATG**CAGAGAATGTCATTGTGTA
TAGTTTCATGTAATCTGTTATGTCAGCTGTATTTTTTATTAAAATCATGTCAAGAAAA

FIGURE 1666

MQRMSLCIVSCNLLCQLYFLLKSCQE

FIGURE 1667

CACAATAATTTAAACAGCTTTCTTATTTCTTAACTTCTCTGGGTATTTTGTGTGCTACTGTATCTTGTGAATGAA
TCTCAAGAGGAAGGATGAAGCTTTTCCAAAATCACATGCCTTCATCTCATTTTACAGAAAAATTTGTGCCTAATG
TTAACCAAAGGAAATGGGGAGCGGCAGGGCCAGTGGGTTTTCATGGTGAACTGAGGGTTGCATCTTGGACAGGTT
GCATGTGGAAGGGACAGCAGGGTTCCCAAGGAAGCTTTGCACGGTCATGGGTAGAGCCATCCCTTCTTCATCCAT
AGTGAATATGGCTGGAAATAGCGGGTAGTCTTGGATTTGACCTCCCTCCCATGGAAGTGCTGTCTCCAGCTCGCT
CCTGGAAAAACTGCTTTCTCCCCAAAGTGTGTCTGAGCAGCAGATTTAAGCATGAAGTTGGTTTTGTGGGGCTAC
AGTATGGACTTTGGGAAGATGGTGCCATCTGTATTTCTGATTCTACCGTCCCTCTGTCTGTCTTTGGAAGTATCC
TTTCACTTGTTTGGGAGACTGAGAATGATTTTCTGCAAACAGTGAGCCAGACCATGCTGGTCTCAAGCGGCAGAG
CAGTTATTAACAGAATCACAGTCTTTCTGGAGCTGCTGTCAGTCCTGTGCTGTCCTCAGGGCCTTTGCTTGGTCA
GGGGCCCCACTTCTTATCCACCCTTCCCTCTACCTCACCGAGGCTGCTAGGCCCAGGTGTATTGTGATTATTTGA
TGTACCTGGGAGGCCATGTCTCCCGGGGGAGGCTCAGGACCTCATTGGGCTGGAATTCCACAGGGATCTCTCATTG
GGTCTCTTTGGGCCTTTGGAGAGGGGAGTGCAGGGCACCACCTGGGCGAACACCTGTGCCATCCTGTAAGTCCTT
GTGTGACTCTTCATCCAAGTCAACAGGGGCATGTAGGGGAAGAGCCTCAGGGCCCATCAGGAGTCAGACCCTGAC
CAGGAAGTCAGAACTGAATCAACTTTTCAATAAACACACAGGCTGGCCCCAAACAAAGCAGCAGGCTTTTGGGAA
CATCTGCCTTTTCAGTCTCTTCTGAATTCTGTTTATGTGGACACCCCATGTCCCGCACCACCATTGCCGCCAGCA
ATGTTTGTTGCTTGCCAATATTTGAATAGATGCTGATAAATTTGATTCTCTGGCTTATTGTGGCATTCATGATAT
GTCTTTCCCTTTTCAGTTTCCATGTACTAGAGCGACTGTCAGTGTGGTTGGCAGTGACCTGTGTTTTTCATGCAT
GTTTTTGTTTCAGAATAACTGGGAGATGAAACAGGAAGCTCTATGACACACTTGATCGAAT**ATG**ACAGACACCGA
AAATCACGACTCAGCCCCCTCCAGCACCTCTACCTGTTGCCCGCCGATCACAGCCGGAATGCAGCTGAAAGATTC
CCTGGGGCCTGGTTCCAACCGCCCACTGTGGACTCTGAGGCCTCTGCATTTGCGGGTGGTCTGCCT**GTGA**TATTT
TGGTCATGGGCTGGTCTGGTCGGTTTCCCATTTGTCTGGCCAGTCTCTATGTGTCTTAATCCCTTGTCCTTCATT
AAAAGCAAAACTAAAGAAAAAAAAAAAAAAAA

FIGURE 1668

MTDTENHDSAPSSTSTCCPPITAGMQLKDSLGPGSNRPLWTLRPLHLRVVCL

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FIGURE 1669

GTTGTTGCAATAAAAAGAATTCATTTACTCTGTTTGGGATTCTCGCCATCAAGGTTCAAAATCCCTTTATATAAC
TCCCAAGAGGAGAAATTTATTAAGTGTGTGCTTTCTGGACAGCTTATTCTTTACTCTGCA**TAG**AACATTTAGGTT
TTAAAAACTTAAATGTATACTGACAATTGATACATAATTATGAAGTAAAGTTGAATTCTTCCCTTCCCCTCCCCC
CCAGACAACTTTTAACATATTTAATGAGGGGAAAAGGTACTGGCTGGGAGAAGTTAACACTGAGTTTATCATCTT
TACAGAATGCTAATGCTGTCCTCAACTGATTATTTTATATACATATATATGATACATGAAACTCTGGGATCAGAT
GCTTTTAGAAGCCATCATGCAAGCCAGTCATTGATGTCACTGCTACACAACACTGCTAACTTGACTGTAGCTATG
TAATAACATTAGATCCCCTAATTGTAATTATATTGGGTTTGCACAGAACACTTTAATCTTCCCCTCACCAATGTG
AAGTGAGGAATCAGGAGTCAAACTGTAGAACTAAAATTTGACTTCAGTCTAGCGTTTCCTTGGTGTTTTTAGGTT
GCTTTGGTAAGTTTAGGTTTGCTATATTTCTGATTGCTTAGAATTTTGTTTTAGCCCTTTAAAATCAGATCATAA
ATATGAATTCATACTTCTAAGGAATTTTCTTGCTATAAGCTGGAGTTTAGGTGATGTATAGGTTCAGTTGAGACA
TTTTTGGAACAGGCAAATCCTTAGTTAACATAAGATATTTAACAGTTGAAGATAGTGTCATGGATTTTTATCTTT
TTTAGCAAGTAATGCTAAGAACCACTGGCCTGAGCTACTACTCTTCAGTATACATTATTAGGATTGCATAGACTT
ACTAGAGGAACAGTTTCAGGTTTTGATGCTAATCAGTGTTGTGTCCTAAAGTTGTCCTTTGTGCCTTTAAAAAGT
TTTGGATATATCTTCTAGTTTAAAATTGCTTATTAAGGAATTCATTTTATAATTGCAGTGGGAAAGTAATGGTCA
AGTAACACTAGGTAGACTATCATGCCTGTTTAGCCCAGAGAATTTGGGGGGAGAGAGAATAGATAAAAATGGCAC
CCAGAAAAATGTTAAAATCTTTAGTCAAGACTAGAATTAATACAATTGTCTACACTTGTATGGCAGAAATAACCT
TATAAAGTGTTTAAGGAATTCAGAGAAGGGAATGTACCAAATAAGCAACAGGGAGAAAATTAGGTAAGAAGTAAG
ATACGAACGAGAAACCTGATTTATTGCTCATCCTTCCCTTGCCTCCCTAATGGCAAGCAAAACTCTGAACATCTG
AAAAGGATGTAGTTCTGGACAAATCCTGACTACCCAGAGGAAACTCACTGTGAGATTGCTGTTGATTTGAAGGGT
GCTTTCACTAAGGTTATATTTTAAAGTAGAATAACACATGCTGAGTGTAAACTGGCTTTGGATTGGTCAGCTGCA
GTAGTACAAAAACAGCATAGAATTTGAGAAAACTAAAACTGCTATGAGATAGCTATGAAAAACTAAAACTGCTA
TGAGATAGAAATGATGTAAAATTATGTGGAAAGTTTTCCCTCATATACTCACATACAGCCTTTGAAGGGCTCTGG
CTCTGACCGGTTGATGGCCTTGAGCGAGATGAAATCATGAAATTGAGTCAAATCAATTTGACATTGAAATGACAA
GAGGAAACTCTTAAATACATAAAAACAAGCTCTCATTTGCCTAGGATAGATACTGTCTTAAAAATAAAGACTGAA
CCTAGATGTTCTGAGCACTAGCAACAAGGTATTTTAACAAGTTTAAAGGAATTCTCTGAAAAAGTTATAAAATTA
TTCTAGGAAACATAACCATAATAGTGTTTTAAGGGACTTTCACCTGGGGATTTTATATTCATGAACAGAGTGTAT
TCTGTATTTAAAATGTCTCATTGTGGGAATTGGATGACATGTTTTTTGATAAATTTATTCACAATATAAATTGA
CTTTTTATTCTAGGACCATGTGAATAATGGGTTCCATTGCACAAATACAAATATTTTAATAGCTTCTTAGGCAGT
GGTGTAGACATCTTGGATATAAATAATTGTAGATCTTGTATATTTGATTTTTAAAAAACTAGAATAAACAGAGAG
GCATAAACATATCTTAGAGTCCAAGTGGTAGTGTTTAGCATTGGATATAATAAATGGATGTTTTACAAAGTGTTT
CCATAATTCTCTTCCTATACATAAATGTCTTGTTTTCAAAAGTGGATGG

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FIGURE 1670

VVAIKRIHLLCLGFSPSRFKIPLYNSQEEKFIKCVLSGQLILYSA

FIGURE 1671

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TGGATTTTAAAAGTATTGAAGAACAACAAAAACCTCTGACAGATTCCCAAAGGGTAAAGTTTACCAAAGAAATTA
AAGGTCTAAAGGTGGAGATAACGCACTGTGGGCAGATGAAGAGGAAGTACCGTGTCTGCAATGTGACCCGGCGGC
CCGCCAGTCACCAAACATTCCCGCTGCAGCAGGAGAGCGGGCAGACGGTGGAGTGCACGGTGGCCCAGTATTTCA
AGGACAGGCACAAGTTGGTTCTGCGCTACCCCCACCTCCCATGTTTACAAGTCGGACAGGAGCAGAAACACACCT
ACCTTCCCCTGGAGGTCTGTAACATTGTGGCAGGACAAAGATGTATTAAAAAATTAACGGACAATCAGACCTCAA
CCATGATCAGAGCAACTGCTAGGTCGGCGCCCGATCGGCAAGAAGAGATTAGCAAATTGATGCGAAGTGCAAGTT
TCAACACAGATCCATACGTCCGTGAATTTGGAATCATGGTCAAAGATGAGATGACAGACGTGACTGGGCGGGTGC
TGCAGCCGCCCTCCATCCTCTACGGGGGCAGGAATAAAGCTATTGCGACCCCTGTCCAGGGCGTCTGGGACATGC
GGAACAAGCAGTTCCACACGGGCATCGAGATCAAGGTGTGGGCCATTGCGTGCTTCGCCCCCCAGCGCCAGTGCA
CGGAAGTCCATCTGAAGTCCTTCACAGAGCAGCTCAGAAAGATCTCGAGAGACGCTGGCATGCCCATCCAGGGCC
AGCCGTGCTTCTGCAAATACGCGCAGGGGGCGGACAGCGTGGAGCCCATGTTCCGGCACCTGAAGAACACGTATG
CGGGCCTGCAGCTGGTGGTGGTCATCCTGCCCGGCAAGACGCCCGTGTACGCCGAGGTCAAGCGCGTGGGAGACA
CGGTGCTGGGGATGGCCACGCAGTGCGTGCAGATGAAGAACGTGCAGAGGACCACGCCACAGACCCTGTCCAACC
TCTGCCTGAAGATCAACGTCAAGCTGGGAGGCGTGAACAACATCCTGCTGCCCCAGGGCAGGCCGCCGGTGTTCC
AGCAGCCCGTCATCTTTCTGGGAGCAGACGTCACTCACCCCCCCGCCGGGGATGGGAAGAAGCCCTCCATTGCCG
CCGTGGTGGGCAGCATGGACGCCCACCCCAATCGCTACTGCGCCACCGTGCGCGTGCAGCAGCACCGGCAGGAGA
TCATACAAGACCTGGCCGCCATGGTCCGCGAGCTCCTCATCCAGTTCTACAAGTCCACGCGCTTCAAGCCCACCC
GCATCATCTTCTACCGCGACGGTGTCTCTGAAGGCCAGTTCCAGCAGGTTCTCCACCACGAGTTGCTGGCCATCC
GTGAGGCCTGTATCAAGCTAGAAAAAGACTACCAGCCCGGGATCACCTTCATCGTGGTGCAGAAGAGGCACCACA
CCCGGCTCTTCTGCACTGACAAGAACGAGCGGGTTGGGAAAAGTGGAAACATTCCAGCAGGCACGACTGTGGACA
CGAAAATCACCCACCCCACCGAGTTCGACTTCTACCTGTGTAGTCACGCTGGCATCCAGGGGACAAGCAGGCCTT
CGCACTATCACGTCCTCTGGGACGACAATCGTTTCTCCTCTGATGAGCTGCAGATCCTAACCTACCAGCTGTGTC
ACACCTACGTGCGCTGCACACGCTCCGTGTCCATCCCAGCGCCAGCATACTACGCTCACCTGGTGGCCTTCCGGG
CCAGGTACCACCTGGTGGATAAGGAACATGACAGTGCTGAAGGAAGCCATACCTCTGGGCAGAGTAACGGGCGAG
ACCACCAAGCACTGGCCAAGGCGGTCCAGGTTCACCAAGACACTCTGCGCACCATGTACTTTGCTTGACATGTTT
TAGTGTTTAGCGATTGTGTACCGAGTGGGATTCACGAGACCAGCTACACTCAGACCAACAGATGGCCAGCCCTTC
CGTGACAGCCAGCATCGAACATGAGACGTCATTGATTTATTAGATTCTCCGTTTTCCAGAATGCCTTCCGTCCC
AGATTTCAAACTTGGATTTTGAACTGCAGACCTGTATGAGAACCCAATGTCATAGGAAATATGGTTTGCTAAAAT
CTATAAGCTGCTTATTAAAACAGAGTCCCGTGTGTCCTAAAAATCTCCTAAAACCAGTCTATGAACTCAGGGCTT
TAAAACATTTTTAATTTATTTGGTCATTCAATTTACTTGTTTTTAATACATGATTCTCTATGAAATTGATGGGCT
CAAACTAGCTGTGAATCTTCTGAGAGTGAAAGCAACACAAAACACAAGTGTGGTTTTAAAGCCTTGAACATTCTG
ATGTTGTCACTAAAGTTGATTTCCAGGCGATGCTCGTGTGCCCCTGGCGTGGCTCACCCAAGTTCCTCGACTGAG
GGCCGGTGGCCATGCAGAGGCGTCCGCAGGTGCCGTGTTCTGCCAGCACCGCCCTTCACCCGGCCTGAACTAAGG
AGCAGTGGCAGAAGGTGGGCCCCGTGTGTTTACAGCATTTCCAGGTCCAGAGAGGTTGGCAGACAAGTGCCATTT
TAATAAAAAATGTATTTAAAAAAAGAAAAAGACAATATACTGACAGTCTAATCATCAGATTTGTCCTATAGGAC
TGTGACATTTATTTTCCAAAGTTTTTAAAGAATACGGGTCTGTGGTGATAAATACAGTACAATCCTTTTTCACTG
TTATGTCTTTAATGTAAGAGAAGAATATATATATCTGGTTTGCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1672

MKRKYRVCNVTRRPASHQTFPLQQESGQTVECTVAQYFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAG
QRCIKKLTDNQTSTMIRATARSAPDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPPSILYGGRN
KAIATPVQGVWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTEQLRKISRDAGMPIQGQPCFCKYAQGAD
SVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTVLGMATQCVQMKNVQRTTPQTLSNLCLKINVKLGGV
NNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVRVQQHRQEIIQDLAAMVREL
LIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDYQPGITFIVVQKRHHTRLFCTDKNERV
GKSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTYVRCTRSVSI
PAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA

FIGURE 1673

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GGGAGTTGCAGGGGGAGAGATGGAAAGGCTAGCAGCTGAAAAAAAATAGGTAAATAACCAGTGTATTCCATGTAG
CTGTTAATCTAGTTTGTTGCTTCCATCAGCTGCAGGAGTATTCCATAGTATGCATCCACCATAGTAAATTTATCC
ATTCACCTGGTTGCCTCAAATTCTTGGCTACCTGGAGAAATTAAAACCCTTGAAGCTAGGGTTCTGAGTACAAGA
TCAGTTCCACCAATTAGATTTCTTCATTTGAGATTTGGGAGGTAAAGGCTGTCTTTCTGCTGTTTGGGTTGTTGC
TGCTGGAAAGCAAGTTTATGTACATATGGGGCTTTCTGCAACAGCTTTCCAGCTTTGAAAACCTGCNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCATTCAACAGGT
AAAATAAATCTACTCTGTAATAGTATAAGTTTGACTACAATAAACTGTGGTTAAGAAGAAAAATTGGCCGGGCAT
GGTGGCTCATGCCTGCCTGTAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NCCAGAGTAATGGTTTCTTGACTTTCTGTAGCCCTTGTTCCTTAGTCTGCTGTGATATTTATGTTGACCTTTATC
ATTTTCTATTCTGAACCCCTCTTAGCATTTAATGTGAAATCTAAGAAATTAGAAGTAGAATGGCTTTTATTGTTT
TGACACCTTTGAAATTATTATTAATAATTTTTCCAGAGCAAAAAAGCAAACACGCTCAATAAGACTAAACAAAAC
AAAATATAAATGTACATCATTTAATGTCCCAGTGGCTCTATTCTACCTGTAAGAAAATGATACAAAACCACCTAA
GATATTTTGAAGCCTGACAAATCAGCTTCATGGAAAAAGGTAAAAAATGCATTTTTCAACCGAAAGGGCAGATCC
AATAGAAGACCCGCTCCTTAAATAAACATAAAATGTAAAAAGTTGGAAAATTAAGAGTAATGTTCCATCTGGAAA
CTGAACTTTTGTCCTTGAACTTGTGTTGGCACCAAGCCTCATACACAGTGAGCTCAATAACTGTTGGGACAAAGG
AAGGAAGGACAAAATGTGTAACTTCCCAGCATCTGGGAGATGCTGTCTCTTGCCTCACTGAGTGTTCCTTTTCTT
TGCTCTCATGTCATTCCCTGAGAACAATGAATTCTGGGACAGGCTAAACATCATGATGAAGTTTCTTAAACAGAC
TTTCTTAGTGGAAATCCATTTAGATCTGGGTGTGCTCTATGGGGAGTGCTGACGTCAAAGAGCAAATGTCTATAA
GGGGCCCTTTTAAAATGAACATTTTCCTCATTGAGCAAGCTGGGATTCTCTAATGTAGAAATCAAGCCATCTTTA
TAATTTCACTTCAGATGTTTATGTTTTTGTTTTTTTTTGTCTCCAATGATGGTAAAAATAAAAACTACGCATTAC
TTAAAGGAGTTTCCCTCACATGTAAACACTGTTAGGAAGTCTGGATTAAGTTGAAAGTCCTGTTTTAACTTTTTT
TCTCTCATATACCAAACACTCTGTATTTCTCTTAAAGAAGCCCTTTAAGAGAAAGCCCTAATTTTATATCTGACA
GTAAAGTTTGCTGCAAGTGTATGAGTTCAAACACATCCCTTGTTTTCTGTCCCTAGGGGAAAAGTCATGTAGTTT
TAGCTTGGCTCCAGTGTTAATATTATATTCAGTAGCAGCCTTAGAAGAGTGGTCTAAGACTTGAACCTGGAGCAA
TTTTATAGCACAGAATCCTACGAAGATAGGACTGTGAACATTTGTTTTCTTTTTCGTGTGTGTCAAACTAACTGG
TTTTTGCTTTACCAATAAAAATGTCCTCGGCAGAGTAAATTTTAAACGTGAAAATTATAGATCTTGATATTGAATC
CATCAGTGATTCAAGAGATACACCTATTTGCCTAAAACAACCTAAGATGTATTGGTTATGGAATCATGTGTTGGA
TAGGTTCTTAAGACCTGTTTCCTCAAATCTTGACACAGTTTTCAAGGGTGGCTTATTGACTTGCACGGTTGGGCA
GATAATCCAGATTTACCTAAGATTGGGTAAAAAAGTCATCTGTGACTTTGCTGGCAGGGCATTTGCTAAGTGGAG
TACAGGATCTAAAAGGGTTTTCTTAGAAAGGGCAATATTGTCCAATGAAGTAAGCAGAAGGACTCTGGGTTAGAA
GCATCTGCACAAAAACTGGTGAGACCTACTCTCCACTGCTCTGCAGCTGGATGGCTGATGGCAGGCTGAGCAGTG
GGGAAGCAGGTTTTAACAACAGGGAGTCCTTCCAGGTCACTGTATATTGAGAAGAAACATAAAACTATTGTCTGT
TACATTCCGAGGTCAGCCTTCTTCTTAACGTTTTATAATATGCAAATGCCAGCTTCTGGAAAGCAAGTATCATCA
TGTACCAAATGCTTTATACACCATCACATTCATGAATTTTTTAGCATGGTCAGAACTTGTGTAAATATGTCTCTT
AGATGATTTTGGGGAGATGTGATTTATTTTTCATATTTTCAAAATGCATTTCATTTCAAATAAAGTTATCTATTG
AGACAACCGAAAAAAAAAAAAAAAGCGG
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FIGURE 1674

MILGRCDLFFIFSKCISFQIKLSIETTEKKKKS

FIGURE 1675

GCACGAGGGCTACGGCCCTGGAACGGGGCC**ATG**GAGAAGCTGCGGCGAGTCCTGAGCGGCCAGGACGACGAGGAG
CAGGGCCTGACTGCGCAGGTCCTGGATGCCTCATCCCTTAGTTTCAACACCAGATTGAAATGGTTTGCCATCTGC
TTCGTATGTGGCGTTTTCTTTTCTATTCTTGGAACTGGATTGCTGTGGCTTCCGGGCGGCATAAAGCTTTTTGCA
GTGTTTTATACCCTCGGCAATCTTGCTGCGTTAGCCAGTACATGCTTTTTAATGGGACCTGTGAAGCAACTGAAG
AAAATGTTTGAAGCAACAAGATTGCTTGCAACAATTGTTATGCTTTTGTGTTTCATATTTACCCTGTGTGCTGCT
CTTTGGTGGCATAAGAAGGGACTGGCTGTGTTATTCTGCATATTGCAGTTCTTGTCAATGACCTGGTATAGCCTG
TCATACATCCCATATGCAAGGGATGCAGTTATTAAATGCTGTTCTTCTCTCCTAAGT**TGA**AAATCAGAAACTTGT
GGAAAAGAGCACTTGAATGTTGGTACTCTATGTTTGGTGAAGTTTGCTTTTCCCCATAAAACACTCCAGGAACAA
CTGACGTGACAGTTGAAGACCGTTTTGTACTAAGTCTCATTTTGTATACTGGTAAAAACTACATGCTTGATTAAA
CCATTAAATGCTTGTAACTTTAAAAAAAAAAAAAAAAAAAAAA

FIGURE 1676

MEKLRRVLSGQDDEEQGLTAQVLDASSLSFNTRLKWFAICFVCGVFFSILGTGLLWLPGGIKLFAVFYTLGNLAA
LASTCFLMGPVKQLKKMFEATRLLATIVMLLCFIFTLCAALWWHKKGLAVLFCILQFLSMTWYSLSYIPYARDAV
IKCCSSLLS

FIGURE 1677

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TTCCGGCCTTGTAATCGCCGAGGGCACGTGCATGCCCCCTGGTTAAGAGTTGCAGGTAGCGGTAGCGATGGACAC
TCTGGATCGAGTAGTAAAGCCCAAAACGAAAAGAGCCAAGAGATTCCTTGAGAAGAGAGAACCGAAACTCAATGA
AAATATTAAAAATGCCATGCTGATTAAAGGGGGAAATGCAAATGCAACAGTGACAAAAGTACTTAAAGATGTGTA
TGCACTGAAAAAACCATACGGTGTACTATATAAAAAGAAAAATATTACAAGACCTTTTGAGGATCAGACATCACT
GGAATTCTTTTCAAAGAAGTCAGATTGTTCTTTATTCATGTTTGGCTCCCATAATAAGAAGCGGCCAAATAATCT
AGTAATAGGTCGTATGTATGACTACCATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTTGTCTCTCTAAA
AGACATTAAGAACAGTAAATGTCCTGAGGGAACAAAACCCATGCTGATATTTGCTGGCGATGATTTCGATGTAAC
AGAAGATTATAGAAGACTAAAAAGTCTTCTTATTGATTTCTTCAGAGGCCCCACAGTATCAAATATCCGCCTGGC
TGGATTAGAGTATGTTCTGCACTTCACTGCACTGAATGGGAAGATTTACTTTCGAAGCTATAAGTTGCTGTTGAA
GAAATCTGGTTGCAGAACACCACGGATTGAATTGGAAGAGATGGGACCCTCATTGGATCTGGTTCTGAGGAGGAC
ACACCTGGCATCGGATGACCTTTATAAATTATCTATGAAAATGCCAAAAGCTCTCAAGCCAAAAAAAAAAAAAAA
A
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FIGURE 1678

MDTLDRVVKPKTKRAKRFLEKREPKLNENIKNAMLIKGGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQ
TSLEFFSKKSDCSLFMFGSHNKKRPNNLVIGRMYDYHVLDMIELGIENFVSLKDIKNSKCPEGTKPMLIFAGDDF
DVTEDYRRLKSLLIDFFRGPTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLLKKSGCRTPRIELEEMGPSLDLVL
RRTHLASDDLYKLSMKMPKALKPKKKKK

FIGURE 1679A

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TGAGTTTCAGTTTATGTACTTAAATATGACTGTCAATTTTCCAATCATTTTTTTTTTCTAAAACAACTACAAAAT
TTGTTCAGCCCAATGTGACACCCCTTGGCCTTCACATAGTGCAAATGAATTATGTATGTGTTGTTTACCTCCATT
TTCTTCCTATTGTCCCTTCCCATCTATGAGTAGCATAGTGTATTCGTTGACCGTGTCAGCTTGCTTATGTCAAAA
GAATCTTAATTATACATAAATTGTAAAATGTGTTAGTCCATGAAAATATTTCTCAGTTGGTTATCACTGCAACAG
GAACATTCTCTACAACTGAAACAGAATTTGATGTGAGTACAGTATCAGATGATAGTTGTGTTTATGACATTAGCT
ACCTAAGTCATGATATCCCTTGACACCAAGATTATCACAGGTGGGGATAGCCATTGAATACATTCAGAGGGGAGC
CCACATCATCCCCCAAAATGCTTATTATTTGTAGAGTTTATCAGAATAAAAATAGCAAACTCTAGAAATAGTGTT
GGGAATAGTCCTTGAGTGGGTTTGGGAACTGTAGTTTGAGGTAATTATGATATATCCAGCCCAGCAGACGCTCAT
TAACTATGCAGGTGCTGTGTTCTGTGCTAGGTACTAAGACTATAAAGATGAATTAGACACAGCTTTGCCCCTAAA
GGAGTTGCCAGGTAAGGGTTAGGGGTTAATGTAGTGTAGAGCGGTCAGTATGAGCAAATGTATGGGGGTGGGGCG
GGGCAACTGTACAGATGAACAATCTGGAATATTAAATTCAACTCACAGAGTGGCAACAAACAATACTGGAGAGCT
GGGCATGAATCCTGGAAAGCCTTGTATGGCCCTGCAAGGGAAGCCATGTTCTGAAAGCTCCTATGAGGGGGACTG
ACTGACTCTAGATAAGTAGATTGAAAGAATTAGAGGTAAAGTCAGTGCAGCAGCACTAATCACAATTAAAATAAA
TGCTTTAATTTTTAAAAAGCGGAAAAACATGAAAGGACACTTCGCAAGCTTCTCAAAACTTCCTGTGATTTGGAG
GGCTATTTTGAGCAGAGTCTAGACGAAAACTGGATCTGACTGGCTCCAGAGTAAAGATCTGAGAAATGGAACCCA
GCAATTTAGATATTACAAGAGCCTGTTATACTTGTCATTTTTTATTTGGTATTTGTTAAATATTACAAAAATGGT
TATGCTTTTTAATTCAAAATTTGACGTTTCAGCATG**ATG**ATACATTCTTGCCTTTTTTCCCCCTTCCATATAGCA
TTTTCCACCCCAGCAAGTCAACTCTTTTCTCCTCATGGTTCTAATCCTTCAACACCTGCTGCAACTCCTGTTCCT
ACTGCATCCCCAGTCAAGGCAATTAATCATCCATCAGCATCAGCAGCTGCCACCGTTTCTGGAATGAACCTGCTG
AATACTGTCCTTCCTGTGTTCCCAGGGCAGGTCTCCTCAGCCGTTCACACACCTCAGCCATCAATACCAAACCCA
ACAGTTATCAGAACCCCTTCATTGCCCACTGCACCTGTTACATCCATCCACAGTACAACCACCACTCCTGTTCCT
TCCATTTTTTCTGGCCTAGTGTCACTGCCAGGTCCTTCTGCCACTCCTACCGCAGCCACTCCTACCCCAGGACCT
ACACCACGGTCCACTCTTGGTTCCAGTGAAGCATTTGCTTCTACTTCTGCACCTTTCACTAGCCTCCCCTTTTCC
ACCAGCTCTTCTGCTGCTTCTACCAGCAACCCAAATTCTGCTTCATTGTCATCAGTTTTTGCAGGGCTCCCTTTG
CCCTTACCACCAACATCCCAAGGCCTATCCAACCCGACTCCTGTAATTGCTGGTGGCTCTACTCCCAGCGTTGCC
GGTCCACTTGGTGTGAACAGTCCATCTTTTGTCTGCGTTAAAAGGTTTTCTGACATCCAATGACACCAATTTAAT
CAACTCCTCTGCTTTATCCTCTGCTGTCACAAGTGGGCTGGCTTCACTATCTTCTCTTACTCTTCAGAACTCTGA
CTCTTCTGCTTCAGCCCCTAACAAGTGCTATGCCCCATCAGCCATCCCTACCCCACAGAGGACTTCCACTCCAGG
GTTGGCCCTGTTCCCAGGCCTGCCGTCTCCCGTGGCTAACTCAACTTCCACTCCCCTGACATTGCCTGTACAGTC
TCCTTTAGCCACTGCTGCATCAGCTTCCACGTCAGTGCCAGTTAGCTGTGGCTCCTCAGCCTCCCTTTTGCGTGG
CCCCCACCCAGGTACCTCAGATCTGCATATTTCATCTACCCCTGCTGCAACAACTCTTCCTGTTATGATCAAAAC
TGAGCCCACAAGTCCTACTCCCTCGGCCTTCAAAGGTCCATCTCATTCTGGGAATCCCTCTCATGGCACTTTAGG
TTTGTCAGGGACATTGGGCCGTGCATATACTTCAACATCCGTGCCCATCAGTTTATCTGCTTGCCTTAATCCTGC
ATTGTCAGGTCTCTCCAGCTTGAGTACTCCTTTAAATGGTTCAAATCCTCTTTCCTCTATTTCCCTTCCACCACA
TGGTTCCTCCACTCCCATTGCACCAGTATTCACTGCTCTTCCTTCTTTTACTTCTTTGACCAACAATTTTCCTTT
AACTGGCAACCCATCTCTTAATCCGTCAGTATCTCTCCCAGGGTCATTAATAGCCACCTCATCTACCGCTGCCAC
CTCCACATCTCTCCCTCATCCTAGCTCAACGGCAGCTGTTCTCTCAGGGCTTTCTGCTTCAGCACCAGTCTCAGC
AGCACCTTTCCCCCTCAACCTGTCCACTGCTGTTCCCTCACTTTTCTCTGTTACTCAAGGACCTCTGTCATCTTC
AAATCCCTCCTATCCAGGCTTTTCTGTCTCTAATACCCCAAGCGTTACCCCTGCTCTTCCCTCATTCCCGGGGCT
GCAGGCGCCCTCTACAGTCGCAGCTGTCACACCACTACCTGTGGCTGCCACAGCCCCATCCCCAGCTCCAGTCCT
CCCAGGATTCGCCTCAGCATTCAGTTCCAATTTCAACTCCGCTCTTGTTGCACAAGCCGGTTTATCATCTGGACT
TCAAGCTGCAGGCAGTTCTGTTTTTCCAGGCCTTTTGTCCCTCCCGGGTATCCCTGGGTTCCTCAGAATCCTTC
ACAATCATCCTTGCAAGAATTACAGCATAATGCGGCTGCGCAGTCAGCATTGTTACAGCAGGTCCATTCAGCTTC
GGCTCTGGAAAGCTATCCAGCTCAGCCTGATGGGTTTCCTAGTTATCCTTCAGCGCCAGGAACACCATTTTCTTT
GCAACCAAGCCTGTCCCAGAGTGGGTGGCAG**TGA**ATACTTTTAACTTTTATTCTCCTTCAGAGCAACATCAGAAT
TGCCTGAGAACTGCAATGAACAATCTGACAAATGTGAAGCTGGCCAAAAGTCGGAAAATGAGAATGAGGGTAATC
CTGGAGAAATTGTGACAACAATTTGAAAATTGTGGTTGCATTTTAAAGTGTGAACACTCCCCTATGTAAATATGC
TGACAATAAATTGTATGGAGAATGGTATTTAAAAAGTGTTTGGAGACTTTTCACCTGTCCTATAAAATTTTGAAT
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FIGURE 1679B

TGTGTATGTGATCTACATAGAAAGAATATTAAAGAGTAGGTTGAACTCTTTATAGCCGAATACAGCCTTAAATAT
GCTTGTATAGCATCCACTGGCAGAAGTAATAGTTGTGCCTCAGACTTGGGGGTTGCATGTGGCCCTGGGGGAGTT
ACTACCCTTGGTATGCATGAGCGGTTCCTATTAGCATCAGTGGGAACTCAGTACTCTGTATGTATCCACAAAAGG
GAACTTGAGACCCACAGTTATTCTTAATTTCTGATATTAACAACCGTACATACTGCTGAATTTAACTCAAAATAT
TTCAGGTAAGTGAAAGTGGTGCTTAATGTAGACTATAGAATGACTTTCAGGTGTTTTCAACTGAAAGTATATATC
CAGAACTGCATCCTTATAGAAATACAAGTAAGACTTAGGATAATTTGCCTTCAAAACAGTTTTCCTAATCTCAGC
AGTATCCAGTGAGTGAAGAACACTTGACTGACTCTTGGGCCACCTCTGTTACTTACTGTACTATGGAAGCTCCTG
GTGAATGTTTACAATTATGGGATGTAGTATTTCTATTTGTACTTTAAGTCAAATGCTTATATGAAATATGTGACA
ACAAATAGAGAAGACTGGCTCTGTTAGTAATTATGCAGTATGTACTCTATTTAAGGATCTGTGGTAGTATAACAT
GAGTGAATGTCATTAATTTTGAAGTAATAACTGCCACATGTGGGAAGTAGGGGAGTAAGGAGAATGAATTCCAAT
CTGTGATTAAAAGTGTAAACTATAGACTCTACTGTAGTACATTTCAGGATCTAGAAGTTTTACTTTTATAAAGAT
GGTGTCCGGAAGATGTTGCTAATGTATTTTACTTCAACATAGGGAACAAACTTTTTAAGTATATTAATAAACCTG
TATGGTTAGTTTTTAACAGTTTTTTAAAATAAACTATGGATATGACAAATATTCTGTGTTTTACTAAGTGCTTGG
ATAGGCTTTCTAATTTTGTATACGTGCTAGAGTTAATTATTGAACATTTTTATCCAAATTTAGTTGTAACTCTGT
TTATACTACTGATTGCTCATTCGTTTAAATGATATTTTAATGTAAAAGTCATAACCAACATATGAACAGACAGAT
TTATGTCTTTAAACACAGAATGTAAGCTATAGTTTAATCTGATACCAGTTGCTGGAAGTTGCCATTTGTTTTTCT
TAAATCTATACCCATAAAACTTCTTTTAAGATTAAAAAA

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FIGURE 1680

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MIHSCLFSPFHIAFSTPASQLFSPHGSNPSTPAATPVPTASPVKAINHPSASAAATVSGMNLLNTVLPVFPGQVS
SAVHTPQPSIPNPTVIRTPSLPTAPVTSIHSTTTTPVPSIFSGLVSLPGPSATPTAATPTPGPTPRSTLGSSEAF
ASTSAPFTSLPFSTSSSAASTSNPNSASLSSVFAGLPLPLPPTSQGLSNPTPVIAGGSTPSVAGPLGVNSPSFVC
VKRFSDIQDTNLINSSALSSAVTSGLASLSSLTLQNSDSSASAPNKCYAPSAIPTPQRTSTPGLALFPGLPSPVA
NSTSTPLTLPVQSPLATAASASTSVPVSCGSSASLLRGPHPGTSDLHISSTPAATTLPVMIKTEPTSPTPSAFKG
PSHSGNPSHGTLGLSGTLGRAYTSTSVPISLSACLNPALSGLSSLSTPLNGSNPLSSISLPPHGSSTPIAPVFTA
LPSFTSLTNNFPLTGNPSLNPSVSLPGSLIATSSTAATSTSLPHPSSTAAVLSGLSASAPVSAAPFPLNLSTAVP
SLFSVTQGPLSSSNPSYPGFSVSNTPSVTPALPSFPGLQAPSTVAAVTPLPVAATAPSPAPVLPGFASAFSSNFN
SALVAQAGLSSGLQAAGSSVFPGLLSLPGIPGFPQNPSQSSLQELQHNAAAQSALLQQVHSASALESYPAQPDGF
PSYPSAPGTPFSLQPSLSQSGWQ
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FIGURE 1681

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AACCTACCTCAGTTTCAGAGAATGAAGGCATTTCAACCATACCAAGCCCTGTGACCTCACCAGTTTTGTCCCGCC
GACACTATGGAGAATCTATAACAAATATAGGCAAAGCAAGCATATTAGGGGCTGCTAGCATTGGAAAGGGACTTG
GAGGAATGTTGTTCTCAAGATTTGGACGTTCATCTACAACACAGTCATCTGAAACATCAAAAGACTCAATGGAAG
ATGAGAAGAAGCCAGTTGCCTCACCTTCTGCTACCACCGTAGGGACACAGACCCTTCCACATAGCAGTTCTGGCT
TCCTCGATTCTGCATATTTCAGACTTCAAGAATCGTTCTTTAATCTCCCACAACTTCTTTTTCCGGAAAATGTAA
TGCAGAATAAAGATAATGCCCTCGTGGAGTTGGATCACAGGATTGATTTTGAACTCAGAGAAGGCCTTGTGGAGA
GCCGCTATTGGTCAGCTGTCACGTCGCATACTGCCTATTGGTCATCCTTGGATGTTGCCCTTTTTCTTTTAACCT
TCATGTATAAACATGAGCACGATGATGATGCAAAACCCAATTTAGATCCAATCTGAACTCTTGAAGGACATGAAT
GGCCTAAAACTGATTTTTTTTTTTCCGTTAAAATGTGTGTGTCAAGATACGGAGATTTCAGGGTTAAAGTATAT
TTCAGTTTTCTTTAGGGCAACATATATTTGAATTTAAAAGCACTTTATTTAAAAAAAAAAGAAGTTTTCAGTTCT
GAAGAAGTCATTTACAGTTTGCATCATTTTAATTATGAGTCTGACAAAACCTTCTCCAGAGAATCAAGCAAGACC
TGGATGTGAAGAAGGTTTGGGTAAACTGCATGTAAAGGCTACAAATCACAATCTGATTCCTCCCAAATATAAAGG
CATATGGAACATAATGTATTAACCAAAGTATGTTATAAATCAAAAATGGTCAAGGTTCAGCATATTCTATATGAA
GATCACAAGGTGGTATCGTTTTAGATTTCTATGAAGGCTTTCATTTGTACATCCCTTTGAAAAAATATAACAGAT
TTAAAATGTTTTGAATTTAACTTGTTTAGAAAAACTAATGCTTAAAACAATATTTGAACTACTGTATTTATAATT
TATTACCTCTAATTGCTTTATTTCAGTGTATGAGACATTACTGTTTTAATGTTTGCTTTGAACATAATTTAAGAA
CCAGATTTATTTTCTATAGTGATAAACCCTTTTTTCTCAGAACTCCATCTTTGTACTCTTCAGATGAATATATAG
ACACTGTGGCATACATTTTTTTTTCATTAAAAACTTATGGCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1682A

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CTGGCTTCAAAGCTCAGCGACCACACTGCTAATTAAGAATGCTTATGAAGAATGTTTAATGATATGAGGAAGACT
TACAAACTGTTTTTACAAAGTTATCAATGTGTGGATTTTATTTACATGAAAGAAAAAATAGTCACAAATGTTACC
TTTCAATGGTAGTATAATAGAATATTAAAATTTACTTTTATTTCATTCTAAATTTTCTACATTCTGCATGTATTC
TCTTTATAATCATTTTGTAAACTCAGAATACTGTTGTAAAGATGTCAGCTCCTTCCCGAGGAAATACCACTAGTT
AGACTTAATACACACATTTTTTTATGTTGAATTGAAATTTTACTTGGTAATGAATCATTCCCTTTAATCTACTCT
TCTAGATTACTGATCTCTCATTACCCAACTATCTGATGGCATCTTCGGTTGGACTGCTTCCTACCCAGCTTCTGA
ATTCTTACTTGGGTACCACCCTGCGGACAATGGAAGATGTCATTGCAGAACAGAGTGTTAGTGGATATTTTGTTT
TTTGTTTACAGATTATTATAAGTATAGGCCTCATGTTTTATGTAGTTCATCGAGCTCAAGTGGAATTGAATGCAG
CTATTGTAGCTTGTGAAATGGAACTGAAATCTTCTCTGGTTAAAGGCAATCAACCAAATACCAGTGGCTCTTCAT
TCTACAACAAGAGGACCCTAACATTTTCTGGAGGTGGAATCAATGTTGTATGATTCTAATGAGATACGTGATTGT
CAAGAGCCTAGTGTGCTATCTAAGGTCTAGCAGTCACTTCACTAGTGGGCAGAGACAAGTTCTAATTGTATTACA
GCACAAACAAAACTGACTAGTTTTTAAATTGCACCATTGTTTTTTTTTTTAAAGCAAGAATCATTTTCTGGGTAT
GTAAGTGTAAATGTAGATGCAAATTTGGCTGCACCTCTTTATCATGCCTGTATTGGCCTATAGGTCTGCACTTTA
GTGTTTTTTAATTGTTTTATTTCTGTGTATTTACGAACAGAGAAATAACCCAAATATTATTTCTGCTTAGTGTCT
TTATTTATAAAGCCCATGAGTAGTTTGTATGCATCTTTCCTACTTGTAAAGATGAGTAAAAGTATGCAGTTTTAA
ATTTATAATATTATTGGATGTTCTTTGCTTTGGTAGTCTTTCCAGAAAGGATAAACAGTGGTTTTTGTTTTGTTT
TGTTTTATTGTTTAAGTGGGACCACTTAGCTTCCCGTTTCCTTACTAGTTAAAGAACAGACATTAATTTTCAGTT
GAATGTATTTTTGCAGGCATCATATTGTTACAGGGCCATTTACACCTATTCACAAAGCTTAAATCCTACCTTGTG
GGACTGAAGTGCTCTTAATATAACTGTTTATTTTCACTGTGTAATATGCAAAGCAAAAGGGAAATTATTTGGTGG
ATGGTAGCTCAAAATTGGAACTCTTGTTCTAATTCAGTTACATTGGCTTTACCCTCCTTAGATTTTTCATCAAAG
GGCTGTCCCATTGCAATCTTACTAAAACATTTTGTTAAAATAAACTCTTTTCCTTTTTATATTAATAATTAGGCT
TTTAAATAAAGATGTTATTCCTTTAAAATGGTGGGCTTACCATCATTGAAGATGTCACTCAGGTGGCCTTGTTTG
ATCAAAACGCCTTTTTTAAAAACCAAGCTTTAAAAACATGTTTATAATTTCATGAAGTACATATATATTGTTCCC
ATAGTCTTCAGCTTTAAAACTATAAATATGCCCAAATTTTGTTATTTGCCCTACTTTAAGTAGGTTTATTGTGTT
TGTTTTTTCAGTACTTGTTTTTCTCTGATAAGACTCAGGAATTCTGAAATGTGAAATTGTCTCAATTCTTTCTCT
TGTAGCATGAATCAAATGTATTTATTAATAGCACTTATGACTATAGAATATAATTGGCATATGATTCATATTAC
ATATGTATTCATTTTATTTTTAAAATAGTTTATAAACTTAATGATTTTTTTTTACAAATGAGGTTATAGATATTA
ATGCAAATTTTCTGGTAGGTATCTCTTTTTTTGCTATGATGATTCCAACTTATCAGAGACCTCCCATTTGCCTTT
TCATTACGGTGAAAGCTTTGCCCTCATCTACTAAAGTACAAAGGAATTCTTTGGAAGCAGATTATTCTAGTCTTA
TGCTAGAGATGAATTTGATCATTTTAATGTGTGATCTTTTTGCTCTATCAGGTATAATTGTTTTCCTTTCCTTTA
TAATGGGTAAGTTTTCTCACCTTTGAGTAACAGTAAAGTTCATTATATGTCCATACCTAGAAGACCAGTGCAAA
TACTTTGAGAGCACCTGGGTCTACAGGACATAATTGGCATCTAAATCCTCATTTCTTGCTATTAGTAGGAAAACA
GATATAGTATTGTAATACCCTTATTCTTTTTGAATCCTAATTACTCATTTCGGTTTTTTTTCTCTCTTTTGAATC
TAGTTGCTGGTTTTCGTTTAATGATTTTAGTTTAACAATCCCAACCAACAATACATTTGATTTATTTTTTTCTGT
CTAACCTGACAACCTTTTTCTTGTGCTTCTTGTTTGTTGGTTAGTTTTTGTGAAAGGAATCATTGTTTAAGATCA
CTGTTTTCATACTTGTTTTACACTTCACGTATTTTGAAGTACATTTATTTACTAAGCATTTGTGACTTGAATAAT
TTCACCAAATGAATACATTTTGGTAGTTTGTAATGAGTTCTTCTAATTGTTACACTTTGCTTGGTACTTAACAAT
AAATATGTAAAGGTAAAAGAAATAATTTTCTGTATTCTGCCAATCTTAATTTTATATAATAAATCATCCATTTTT
TTCTTAAAATAGTATGGATTGACTGTTTCTAAAATACCAATCTGTGGCTGTGGTTTTTCTTTTCTTCAGCATTTC
CAGCATCCAAGTAAACAATAGTCCCTTATAGTCCTGCTACTTGATGGGTAAATTTGGTTGCTGGGTTTTTAAGTT
GCACTCACAATAAATCGTGCAAAGCATTGTCATGCCTTATTTACTCCATTTTTAATCCTGCATCCCAGATTTATG
GCAGCAACACATATCTACAGGATACTTTTATGTTGTCCAAATATTGCTGTCAGTCATATGTACTTATAAAATGTC
TCCAGTCATGTATATTTATAGAAATGAAATGTCAAATTTCTCAGACTGTTAAAGTGCAGTATAAAGTTGCTTAAT
GCACACTTAAAAATGATATATAATTTCTGAATCCTATGAAATATGTGTTCTTTTTTAATTCTTTGGGAGTTTTCT
TAAGTTTTACATGTTTTTTGGTTTATTGTTAATGATTTTGTTTACTCTTTGCCAAATTTTGTCATGTAGGTTATT
TTACAATAGCACCTTTAAAAAAAATGTATATGCTAATTTACTAAGCATATTCATGTCCATTTTTATTTGATCATC
TGATTTGTGAAATAACTTGAAATTTGTACTGTTTGGTTTGTGAAAATAATATTACCAAATCTCTGTCATTAGAAT
GTGTACTTTATGTTCAGAAGTGACTGTGGGTTTATTCAGAGCCAGCCATTCTCTCCCTTGATGCACTTTGTAACC
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FIGURE 1682B

AGCTACACATGCTTTTAGGTGGCTTTTCCCTGATAGGGTCAAGTATATGACTATAAAACATTTTTCTTGTGAAGC
TATTAAGTTCATTAGTTACTCTTATTTCCCCTTGTTGTAACTAAGTGGTGCAGGTATAAGCATATCCCCAGCATT
CCTGTGTGTGTGAATGTGCACTGCTGATTTGGACTGTTCTTGAGAAAGGTGCTGTGACATATGTCAATATTTGTT
AGCTCTGGGGATATCTTTAGAATGCTTGAGAAAGTTGCTAGGTGTGTGCCACATTGGTGCAGGTAAATCCATGCT
GTTCACAGCCAAGCAGCATTTGCAGAGAAAAGGAGAGTTTTACATAGACCCCAGGAAAAACAGTACTAACCTGGT
TGATGGCCTTGGTGGTGGAATTTTGTTTCAGCCAGAGGCTACTCATTATATCAGAATGATGTTCAGTATAACACT
ATCTGATTTTTAGATTGGTCGATTTCTGTTGTAATCAAGTATTTAGGATGTAATCTTTTTAAAGTCATTGCTTTA
ATCTGAAAAGCCATTAGAAGGGAGAGGAATCACTGTTCCACAGGATATTTAAAACTCAGGAGTTCAAATAACCTC
ACATATTGAACATAAACTGTTAACTTATTCCACAACTAAATTCTAACCTGATACTTATGAATTGCAAAGTGATTG
CTGCAAACTTTTTCTAAGGTGGCTGAAGATTTAAAATAGATCATTCTAAAGGGAAATCAGTAAAATGTCTTGATA
ATTGGTATCCAAATCACTTGTGTGCCTGAGAAAATAAAAGGTAATATTTTACTTTCAAAAAA

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FIGURE 1683

MASSVGLLPTQLLNSYLGTTLRTMEDVIAEQSVSGYFVFCLQIIISIGLMFYVVHRAQVELNAAIVACEMELKSS
LVKGNQPNTSGSSFYNKRTLTFSGGGINVV

FIGURE 1684A

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CAATGCTACATATGTACAGCCTAGAAGAAAACAGAGAGATGAGCAGCTTCTGACAAATGTCCTGGAAACACTTCG
AGGTGATGGAAATGTGTTAATAGCAGTGGACACAGCAGGCAGAGTTTTGGAACTTGCTCAACTTCTTGATCAGAT
TTGGAGGACTAAAGATGCAGGATTGGGTGTTTACTCATTGGCACTCCTAAATAATGTCAGTTACAATGTGGTGGA
GTTTTCTAAGTCCCAGGTAGAATGGATGAGTGATAAATTGATGAGATGTTTTGAAGACAAAAGAAATAATCCGTT
TCAGTTTCGCCATCTCTCTTTATGTCATGGTCTTTCTGACTTGGCCCGTGTACCTAGCCCTAAAGTTGTACTTGC
CAGCCAACCTGACCTGGAATGCGGATTTTCAAGGGATCTCTTTATTCAGTGGTGTCAGGACCCTAAAAAACTCAAT
CATTCTAACCTACAGAACTACTCCTGGGACTTTAGCACGTTTCCTAATTGATAATCCTTCTGAAAAAATTACAGA
AATAGAGTTGAGGAAACGTGTGAAGCTTGAAGGGAAAGAACTTGAAGAATACTTGGAAAAAGAGAAACTAAAGAA
AGAAGCTGCCAAAAAGCTTGAGCAGTCAAAAGAGGCAGATATAGATTCCAGTGATGAGAGTGATATTGAGGAAGA
TATTGACCAGCCATCAGCTCATAAGACGAAGCATGACTTGATGATGAAAGGTGAAGGCAGTCGTAAAGGAAGTTT
TTTCAAACAGGCAAAAAAGTCCTATCCTATGTTCCTGCCCCAGAAGAAAGAATTAAATGGGATGAATATGGAGA
GATTATCAAACCAGAGGATTTCTTAGTGCCAGAGCTTCAAGCTACTGAAGAAGAAAAAAGCAAATTAGAATCTGG
TTTGACAAATGGAGATGAACCTATGGATCAGGATTTATCTGATGTTCCTACTAAATGTATTTCTACAACAGAGTC
TATTGAAATAAAAGCCCGGGTTACCTACATAGACTATGAAGGACGCTCTGATGGGGATTCCATTAAAAAAAATCAT
TAATCAGATGAAACCACGACAGTTGATCATCGTCCATGGCCCACCAGAGGCCAGTCAAGATCTGGCAGAGTGCTG
TCGCGCCTTTGGTGGGAAAGATATTAAAGTGTACATGCCAAAGCTACATGAAACAGTTGATGCCACTAGTGAAAC
TCACATCTACCAGGTGAGGTTAAAAGACTCACTTGTCAGCTCTCTTCAGTTTTGTAAGGCAAAAGATGCTGAATT
AGCTTGGATAGATGGTGTCTTAGATATGAGAGTTTCCAAAGTGGACACAGGGGTTATTTTAGAAGAAGGAGAACT
AAAGGATGATGGAGAAGACTCAGAGATGCAAGTGGAAGCTCCCTCAGATTCTAGCGTTATAGCACAACAAAAGGC
CATGAAAAGTCTGTTCGGAGATGATGAAAAAGAAACAGGTGAAGAAAGTGAGATCATTCCTACTTTGGAACCCTT
GCCACCTCATGAGGTTCCTGGACATCAGTCAGTTTTTATGAATGAACCAAGGCTGTCAGACTTCAAGCAAGTTCT
CTTACGGGAGGGGATTCAAGCTGAATTTGTAGGAGGTGTACTTGTTTGCAACAATCAAGTAGCAGTCCGCAGAAC
GGAAACTGGACGCATTGGATTAGAAGGCTGCCTTTGTCAAGATTTTTATAGGATAAGAGACCTTTTATATGAACA
ATATGCCATTGTA**TAA**AGGACATGATGTCAAGAAGTATCTGCTTGACCTTTCTAAGAAAAAGGGATTCTTATCTT
ACTCTGAGCTTTTGATGTTTTGTTTTGTAACATACAAAAAGAATCTGCCAGAAAAACTTACATGTATCAGATTTT
TAAAAATATAAATAGAGAACATTTTGCAAATGCTCAAATGAGCATTCTATCTTTTGGCTTTCAGAGTGATAGAGC
TCCTAACAGGTGTACAGGCCCAAGAGTTGAAGGTGATTGGTTTTCTTTACAGACTCCTTGTTCTCTAGAAGGGCT
TTTTACTTGAATAAAACAATGCAACTTAGCAAACCAATTTATGGCCTTAGAGAAACATTTTTGCATGAGTTCTTA
CAAACTGTTTGTTATATTTTCTGGAATGATAAGTGAGAATTATTTAGAAAAGACATGCTCCAAAAAAAAAACAAA
ACTGATAAAACAGTTTTTCGAAACTTACTTTTAAAAGCATACGTGCTATGACTCTCTCCAGTTTGAATATGCAAT
TGTTTTCACAGGCAGGATGTCTGTTTTCTGCCTGTATTTCCCAGTGATTTACTCTAGGGTAAGGTAGTACACATT
TGGTTCAGAAATTAATTTTTATTTCTCCTATATCTTGTTTTATCAAGATTTTGTTGTGGCATTTCAATGTAAATT
ATAACACCATCATTTGAGTATACATAATTCAAAAGAACTACTTGATGCAGTATAGTCTTAAGGGTTCTGCATACA
TTTTAGAAACATCTTAGCCGTAAGTTAGGTCCTGTGTTAAACTGTTTAGTGCTCTGTTTTTAAGAAAACAAATGT
TGAACCTCACACTTTTATGTGGTGACAGTGTAATTTAATTAAAAGGTGTAAATGTTTTCATCTCTTAGGCTTGCT
GTCTCCTAAGGTCACCCAAGCAGTGGTTGGATTTTATACACATTACTACTAAAATAATACTGAAGTTGGATAAGG
TTATCCTTTCTGTATTTGCGTCTTTCTTGTGACTAACCACCCTGATATAGTATTAACCACTGTGTTCAAGAGTAA
AAACAATATATGCAATTTTCATTGAACTTAAAGAGTGAAAACCATGTAAACTATTGAAACTATTGTAATCCATTA
ATGCTTTTTTAGAATGGCAGACCTTGATGTTTATTTCTCAAATGGTTAAGCCCTCTTCTTTACTCTTAATTTTTT
TTTGAGACAGAGTCACCCAGGCTGGAGTGCAGTGGTGAGATTTTGGCTCACTATAACCTCTTCCTCCAGGGTTCA
AGTGATTCTCCCACCTCAGCCTCCCAAGTAGCTGGGACTACGGGCACATGCCACTGCACCTGGCTAATTTTATA
TTTTTGGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAAGCGATCCACCCACC
TAGGCCTCCCAAAGTGCTGGGATTACAGGCATGAATCACCACAACTAGCCTACCCTTAGATTTTTGGAAGGATCG
ATCTTATTTAACTATGTGTGGAACAACCCAGTAATATCAGACTCGAATTACTATTTCATTCTATTTCAAATGCTT
ATAAAGCTACTATTGTAGATTATAGTGTTAATGCAAAGTTTACAGACTTTTGATATGGAAAACCAGATAAAACAA
TGTTACAAAAGGCAAATATAAAGAGTATGTTTTCTTTTTAGTGCTTTGGAAAAATTTCACTTAAACTCTTATTAC
TGTATAGATTAAGCCCTATAATGCTATTTATATTCCAGGGGAACGAAAATCTGAATTTGTTTTATGATTTAAAGC
ATCTGGTTTGCATATTGTATTGTAATACTGATACAGTTTGGCTGTGTCCCCACCAAATTGAATTGTGTTAATAGT
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FIGURE 1684B

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TCCCATAATCCCTACGTGTTGTGGGAGGGACCCAGTGGGCAGTAATTTAATCATGGTGGTGGTTACCCTCATGCT
GTTCTTGTGATGGTGAGTTCTCATGAGATCTGATGGGTGTTTTTTTTTGTTTTGTTTTTTGTTTTTTGAGATGGA
GTTTTGCTCTTGTTGCCCAGACTGGAGTGCAATGGCACACGATCTCGGCTCACCGCAACCTCTGCCTCCTGGGTT
CAAGCGATTCTCCTGCCTCAGCATCTCGAGTAGCTGGGATTACAGGCATGCACCACCACGCCCAGCTAATTTTGT
ATTTTTAGTAGAGACGGGGTTTCTCCATGTTGGTTAGGCTGGCCTCAAACTCCCGACCTCAGGTGATCCGCCCGC
CTGGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCTCCTGGCCCAAGATCTGATGGTTTTGTAAGGG
AATTTTCCCCCTTTGCTTGGCACTTCTTCCTGCTGCCATGTGAAGAAGGATGTGTTTGCTTCCCCTTCCACCATG
ATTGTAAGTTTCATGAGGCCTCCCCAGCCTGTGGGACTGTGAGTCAATTAAACGTGTTTACTTTATAAATT
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1861/2682
FIGURE 1685

NATYVQPRRKQRDEQLLTNVLETLRGDGNVLIAVDTAGRVLELAQLLDQIWRTKDAGLGVYSLALLNNVSYNVVE
FSKSQVEWMSDKLMRCFEDKRNNPFQFRHLSLCHGLSDLARVPSPKVVLASQPDLECGFSRDLFIQWCQDPKNSI
ILTYRTTPGTLARFLIDNPSEKITEIELRKRVKLEGKELEEYLEKEKLKKEAAKKLEQSKEADIDSSDESDIEED
IDQPSAHKTKHDLMMKGEGSRKGSFFKQAKKSYPMFPAPEERIKWDEYGEIIKPEDFLVPELQATEEEKSKLESG
LTNGDEPMDQDLSDVPTKCISTTESIEIKARVTYIDYEGRSDGDSIKKIINQMKPRQLIIVHGPPEASQDLAECC
RAFGGKDIKVYMPKLHETVDATSETHIYQVRLKDSLVSSLQFCKAKDAELAWIDGVLDMRVSKVDTGVILEEGEL
KDDGEDSEMQVEAPSDSSVIAQQKAMKSLFGDDEKETGEESEIIPTLEPLPPHEVPGHQSVFMNEPRLSDFKQVL
LREGIQAEFVGGVLVCNNQVAVRRTETGRIGLEGCLCQDFYRIRDLLYEQYAIV

FIGURE 1686A

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GCAGGATGTGATGGAAATGAAAAAAACAAAGGTTCGCCTAATGAAACAAATGAAAGAAGAACAAGAGAAAGCCAG
ACTGACTGAGTCTAGAAGAAACAGAGAGATTGCTCAGTTGAAAAAGGATCAACGTAAAAGAGATCATCAACTTAG
ACTTCTGGAAGCCCAAAAAAGAAACCAAGAAGTGGTTCTACGTCGCAAAACTGAAGAGGTTACGGCTCTTCGTCG
GCAAGTAAGACCCATGTCAGATAAAGTGGCTGGGAAAGTTACTCGGAAGCTGAGTTCATCTGATGCACCTGCTCA
GGACACAGGTTCCAGTGCAGCTGCTGTCGAAACAGATGCATCAAGGACAGGAGCCCAGCAGAAAATGAGAATTCC
TGTGGCGAGAGTCCAGGCCTTACCAACGCCGGCAACAAATGGAAACAGGAAAAAATATCAGAGGAAAGGATTGAC
TGGCCGAGTGTTTATTTCCAAGACAGCTCGCATGAAGTGGCAGCTCCTTGAGCGCAGGGTCACAGACATCATCAT
GCAGAAGATGACCATTTCCAACATGGAGGCAGATATGAATAGACTCCTCAAGCAACGGGAGGAACTCACAAAAAG
ACGAGAGAAACTTTCAAAAAGAAGGGAGAAGATAGTCAAGGAGAATGGAGAGGGAGATAAAAATGTGGCTAATAT
CAATGAAGAGATGGAGTCACTGACTGCTAATATCGATTACATCAATGACAGTATTTCTGATTGTCAGGCCAACAT
AATGCAGATGGAAGAAGCAAAGGAAGAAGGTGAGACATTGGATGTTACTGCAGTCATTAATGCCTGCACCCTTAC
AGAAGCCCGATACCTGCTAGATCACTTCCTGTCAATGGGCATCAATAAGGGTCTTCAGGCTGCCCAGAAAGAGGC
TCAAATTAAAGTACTGGAAGGTCGACTCAAACAAACAGAAATAACCAGTGCTACCCAAAACCAGCTCTTATTCCA
TATGTTGAAAGAGAAGGCAGAATTAAATCCTGAGCTAGATGCTTTACTAGGCCATGCTTTACAAGATCTAGATAG
CGTACCATTAGAAAATGTAGAGGATAGTACTGATGAGGATGCTCCTTTAAACAGCCCAGGATCAGAAGGAAGCAC
GCTGTCTTCAGATCTCATGAAGCTTTGTGGTGAAGTGAAACCTAAGAACAAGGCCCGAAGGAGAACCACCACTCA
GATGGAATTGCTGTATGCAGATAGCAGTGAACTAGCTTCAGACACTAGTACAGGAGATGCCTCCTTGCCTGGCCC
TCTCACACCTGTTGCAGAAGGGCAAGAGATTGGAATGAATACAGAGACAAGTGGTACTTCTGCTAGGGAAAAAGA
GCTCTCTCCCCACCTGGCTTACCTTCTAAGATAGGCAGCATTTCCAGGCAGTCATCTCTATCAGAAAAAAAAAT
TCCAGAGCCTTCTCCTGTAACAAGGAGAAAGGCATATGAGAAAGCAGAAAAATCAAAGGCCAAGGAACAAAAGCA
CTCAGATTCTGGAACTTCAGAGGCTAGTCTTTCACCTCCTTCTTCCCCACCAAGCCGGCCCCGTAATGAACTGAA
TGTTTTTAATCGTCTTACTGTTTCTCAGGGAAACACATCAGTTCAGCAGGATAAGTCTGATGAAAGTGACTCCTC
TCTCTCGGAGGTACACAGATCCTCCAGAAGGGGCATAATCAACCCATTTCCTGCTTCAAAAGGAATCAGAGCTTT
TCCACTTCAGTGTATTCACATAGCTGAAGGGCATACAAAAGCTGTGCTCTGTGTGGATTCTACTGATGATCTCCT
CTTCACTGGATCAAAAGATCGTACTTGTAAAGTATGGAATCTGGTGACTGGGCAGGAAATAATGTCACTGGGGGGG
TCATCCCAACAATGTCGTGTCTGTAAAATACTGTAATTATACCAGTTTGGTCTTCACTGTATCAACATCTTATAT
TAAGGTGTGGGATATCAGAGATTCAGCAAAGTGCATTCGAACACTAACGTCTTCAGGTCAAGTTACTCTTGGAGA
-TGCTTGTTCTGCAAGTACCAGTCGAACAGTAGCTATTCCTTCTGGAGAGAACCAGATCAATCAAATTGCCCTAAA
CCCAACTGGCACCTTCCTCTATGCTGCTTCTGGAAATGCTGTCAGGATGTGGGATCTTAAAAGGTTTCAGTCTAC
AGGAAAGTTAACAGGACACCTAGGCCCTGTTATGTGCCTTACTGTGGATCAGATTTCCAGTGGACAAGATCTAAT
CATCACTGGCTCCAAGGATCATTACATCAAAATGTTTGATGTTACAGAAGGAGCTCTTGGGACTGTGAGTCCCAC
CCACAATTTTGAACCCCCTCATTATGATGGCATAGAAGCACTAACCATTCAAGGGGATAACCTATTTAGTGGGTC
TAGAGATAATGGAATCAAGAAATGGGACTTAACTCAAAAAGACCTTCTTCAGCAAGTTCCAAATGCACATAAGGA
TTGGGTCTGTGCCTTGGGAGTGGTGCCAGACCACCCAGTTTTGCTCAGTGGCTGCAGAGGGGGCATTTTGAAAGT
CTGGAACATGGATACTTTTATGCCAGTGGGAGAGATGAAGGGTCATGATAGTCCTATCAATGCCATATGTGTTAA
TTCCACCCACATTTTTACTGCAGCTGATGATCGAACTGTGAGAATTTGGAAGGCTCGCAATTTGCAAGATGGTCA
GATCTCTGACACAGGAGATCTGGGGGAAGATATTGCCAGTAATᵀᴬᴬᴬCATGAATGAAGATAGGTTGTAAACTGAA
TGCTGTGATAATACTCTGTATTCTTTATGGAAAATGTTGTCCTGTACTTACTAGGCAAAACGTATGAATCGGATT
AACTGGAAAATATATCTGAATTCAACTGCTGACTATAAATGGTATTCTAATAAAATTGTGTACTATCCTGTGTGC
TTAGTTTTAAGATCAACCAATAGATATATATCCTACAATTGATATATTGCTTATTCACACTTTTATTGTGGCTG
AATTTTTGTGCCTATCTATAAAACACACTTTCAAATTATTTGAATTACCAAGACGTCTGCTTTTGTGACAGTCAG
AAAACACACCTGGAATACGATGCAGCCCACCATTAACTCATTCATGTAGTTTATTCAAGTGATTTATGTATTTAA
ACTAAATATTGAAAATGTTAGTCAAATTGTGGTTTGCTTGTCAGGTATTTATATCAGTCTGTAGTGGATTCCCAA
ATTTCAAAGCTCTTTTAATGTAATGGACAAAAATAAGATATGAGAATATTATTGATGAATTTTCATAAGGTGGAA
TTGATCTTAATCTACTAACAGAGAAGGGTAGACAGTTTGTGTTAAATGTTGGCATTTACTTGTATTGACCAAAGT
TTTGCAGCTCTACTATATTCTGTGCTCAGGACTAAAATGCTGTTAATTTTTTTTTTTTTTCCAGTGCTGTGCAT
ATATTCTGTGATGGGAAACATTGTTGATGTCCTAACAGAAATATATTTTGATCTATTTTCCTATGGAGTTGTTTC
TATTATGACCATTTAATTTTGTTTTTATTTAATAGTAGTATTTCCTTCCCTTTTATCTAATTTTTTATATGCTGC
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FIGURE 1686B

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TAAATATATTTTAAATATACTATGTTTGCGAACCTTGGTAGCTATGATGAGAGCTATTATCATCTGTGGTGGGAA
AAGCTATGTAAATAGGTAGATTGTATAGAGAGACTATCTTGTGTTGTGCCTGTATGAATTTTTAAAAGTTGTTGA
CTGGATTTTGCAAAAGGATGTATAATATTTCTGTCTGCTCAGAATATTAATTTGTAAATTCTGCAAGTTTAATTT
TTATGTAGATGGTATAACATTTGAAAATATTGTCTTATGTGATTTTTTCCCCTGAAAATATTTGCTTGTAAATGA
AAACTTAGCTAGGGCTTAAATAAACATGTTGCTATGAAATT
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1864/2682
FIGURE 1687

QDVMEMKKTKVRLMKQMKEEQEKARLTESRRNREIAQLKKDQRKRDHQLRLLEAQKRNQEVVLRRKTEEVTALRR
QVRPMSDKVAGKVTRKLSSSDAPAQDTGSSAAAVETDASRTGAQQKMRIPVARVQALPTPATNGNRKKYQRKGLT
GRVFISKTARMKWQLLERRVTDIIMQKMTISNMEADMNRLLKQREELTKRREKLSKRREKIVKENGEGDKNVANI
NEEMESLTANIDYINDSISDCQANIMQMEEAKEEGETLDVTAVINACTLTEARYLLDHFLSMGINKGLQAAQKEA
QIKVLEGRLKQTEITSATQNQLLFHMLKEKAELNPELDALLGHALQDLDSVPLENVEDSTDEDAPLNSPGSEGST
LSSDLMKLCGEVKPKNKARRRTTTQMELLYADSSELASDTSTGDASLPGPLTPVAEGQEIGMNTETSGTSAREKE
LSPPPGLPSKIGSISRQSSLSEKKIPEPSPVTRRKAYEKAEKSKAKEQKHSDSGTSEASLSPPSSPPSRPRNELN
VFNRLTVSQGNTSVQQDKSDESDSSLSEVHRSSRRGIINPFPASKGIRAFPLQCIHIAEGHTKAVLCVDSTDDLL
FTGSKDRTCKVWNLVTGQEIMSLGGHPNNVVSVKYCNYTSLVFTVSTSYIKVWDIRDSAKCIRTLTSSGQVTLGD
ACSASTSRTVAIPSGENQINQIALNPTGTFLYAASGNAVRMWDLKRFQSTGKLTGHLGPVMCLTVDQISSGQDLI
ITGSKDHYIKMFDVTEGALGTVSPTHNFEPPHYDGIEALTIQGDNLFSGSRDNGIKKWDLTQKDLLQQVPNAHKD
WVCALGVVPDHPVLLSGCRGGILKVWNMDTFMPVGEMKGHDSPINAICVNSTHIFTAADDRTVRIWKARNLQDGQ
ISDTGDLGEDIASN

FIGURE 1688

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CTATTTTGTTTGTAGTATTGTGGAACAGTCTTGTTATGGAGTGCCAGCTTAGAGGTTGTTGCAAACTTGTCTAGA
AGTGAGAGCATGGTTTTTTTTTAGCCCTTTGAGAGTCTACATCTAATGAACATTCTTGCTCACCCATAAATAACGT
CAAGCCTCAATGTCACCGTCACGTTGGGATACTCTTTCTCATCTGGCATCCTAGACAGGACAAGGTTGGTTACCT
TTCCTTCCATGAACCATGAACCTGTGACGGCATCATTCATCCTGACTTCACCAAGCTCCGCCTGTGGGTGAGGCC
AGAGCTCCCACTGGCAATTTTTAGAAGAGCCAGAGGCTCCCTGCTTCCTCTAGAAATAACAGTTCAGGGTGAAGC
ATGGAGGGTTTCAGTTCCCAGACAACGGAACCATTTAGAGACAACACAGTTGGACATTTCCACTTTTTCCTTGAT
TCCTGGAAGTCCAGTGGGTTCTGCAGCTGAAAAAGCCCTGGGTCCCAGCAGCAGAGAGACAGGACAGAGGGGATG
CTTGGGCGGGGAGGGACGGTAACCTGCAGAACAGATTCCATTTTTATAGAACGAGTACACGTTTGCTAAAACAGT
CCTGCTTTCCCAGACTGGATTCCCACCACAGGGACAGTCGGAACTCAGGACTAGCTCCAGCGACATCTTTCCTCC
GAATTCAAGCCTTCTATCACAATGTCAAAACAGCTATTTATAAAGCCATTTTCATTGTACTTGATAACAGCACGA
GTCCCAAAACTTTTAGAAATAAAATAGGACATTGGCTTGATTGAAAAGAGGGACTTTTTAAAAATTGTTCTTTCG
TCAGAAGCCTTTTGGATGACTTACAATAGCTCTGATGAAGATACCACCCCAGCGTCAGTCCAATAGGTCAGTGAG
TTTCAACAGGCATCCATCCCTCCCATGAAGGGATTCTGGTGATGGGAAGTTTCTGTAATGACAGGAAAGCATTGA
CCCTCATTGATTGTCAACTTTGGTATTAGCCATGAAAGACAGGATGCTCATTGGGTGTTCTGTAGAGTGAGGAAT
GCTGCCTATTCCCTCCCAGAACGTCTGACCCAGGGGTGTGTGTTGAGGAGCCCTGGGGGAAATGGACCAAGTTTT
CCCACAGAGCAGTATTAGGCTGAAGAGCAGGTGACTGGTAGGCCCCAGCTCCCATCATTCCCTCCCAAAGCCATT
TTGTTCAGTTGCTCATCCACGCTGGATTCCAGAGAGTTTTTCCAATTTGGGAAGCCATGAGAAAGGTTTTTAAATC
TTGGGAAGATGGAGAGAGGGACATAGGATAGTTGACTCCAACATGACAGGAAGAGGCTGGAGATTGGGAATTGGC
CATCAACCAAGCCTGTAGTAGTAAAGCCATGGTCCCGCATTGGAATTACTTGGGGAACTTATACAGTTCTGATAC
CCAGGCTCTCCTAGACCAGTTCAACCAATTCTAGGTGGGGGACTCAGGCATCAGTGTGTTTCGTAGCTCCCCGGG
TGTTTTCCCTGTGCAGCCGAGCTTGGGAAACTGCCATGCTTTTTGGATGTCAAGGCGCTGTTGGAGGCTGGGTGT
GACAGCACAGAGCCAGGTTGTCTTGTGGAAACCACAGCCACGGGTTTGCCACTGGCTCAGCATGGCCTCACTGCC
AGTCCCAGCCTGGCTGAGGGACAAGATGGTTTCTCTTGGGAGTTCCTGAGTGGAGCACCCTTCCAGGCTTTTTGA
AAGCCAGCTGATCTGTGGAGCCTTGTTAAGGGACTCAATACGGTGTTTGGATATTGATGTTTTTCCTTGAGACTG
TCTTGTCCATCAATAAAGATGGAGGATGTCTCCTCTTTGAACCCCGCTTCCCCACCAGTACTCTCTCTCCCTTAG
AGTTTATGAGTTATTCAAGGAGGAGACTTCTTAAAGACAGCAACGCAATTCTTGTAACTTGTGTAAATAGCCCCA
TCTTTCAGAGTGATACCATTTCTACATTTGATAATGCCTGTATTCCTGTAGGATGTATATAGTTTAGGGGATTTT
TTTTTGTTTGGTTTTGTTTTTAGAAGTCAATATGTCTGGTTTTATTTATTGCTTGAAAAAGATCATTTGAAAA
AAATAAATACATTTTCAATTCCAGAAAGGATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATG
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1866/2682
FIGURE 1689

MSGAEKEVM

FIGURE 1690

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GCGCGAGAGGACGTGCTCTGCCAGCCAGTGGGAAGGCAGGCCGCGCGCGCGGGAGCGCGGGAGGATCGGCGGCTC
GCGGTCACTGGTCCCTGGCTCGGTTCCCCGCACCCCGGGGCTCACACTTACCCGCGCGGAGGAGCAGCGGCCGGG
TGTCCACCCCCATCCTGCGCCCAGTCTCCTCGATTCCCCTCGCTCTGAGCCGGGAGAGCCGAACAGCTGAAGAGA
GTTCACTGACTCCCCAGCCCCAGGTGGGGCCTTGTGCACATCATGACCAGTTTTGAAGATGCTGACACAGAAGAGA
CAGTAACTTGTCTCCAGATGACGGTTTACCATCCTGGCCAGTTGCAGTGTGGAATATTTCAGTCAATAAGTTTTA
ACAGAGAGAAACTCCCTTCCAGCGAAGTGGTGAAATTTGGCCGAAATTCCAACATCTGTCATTATACTTTTCAGG
ACAAACAGGTTTCCCGAGTTCAGTTTTCTCTGCAGCTGTTTAAAAAAATTCAACAGCTCAGTTCTCTCCTTTGAA
ATAAAAAATATGAGTAAAAAGACCAATCTGATCGTGGACAGCAGAGAGCTGGGCTACCTAAATAAAATGGACCTG
CCATACAGGTGCATGGTCAGATTCGGAGAGTATCAGTTTCTGATGGAGAAGGAAGATGGCGAGTCATTGGAATTT
TTTGAGACTCAATTTATTTTATCTCCAAGATCACTCTTGCAAGAAACAACTGGCCACCACACAGGCCCATACCG
GAGTATGGCACTTATTCGCTCTGCTCCTCCCAAAGCAGTTCTCCGACAGAAATGGATGAAAATGAGTCATGAACA
CAGAAAGTCTAAGAGGAGAAATATGATGGATGAAGAGCTCTGTAGATGCTGTATAGACACTAAATAAGAGTTGAT
TAGGGTAGTATATTATAGTCATCTGTTATGCTGTGAAATTTGGAATTCAGTATTATCATTTTGAAGTCTGTAAAT
TGTGTTAGTCATTAACTTAGTCACCTGTTGTATTCTGGATCTACACAAAATTATTTTAACTGCTCTTATTAATCT
GTGAGGATTAATATACAAAAAGTATCCTTTGAGATGAAGTCGTGTTCTCAAAATAAGGTTATATTATTTTCTTTT
TCTGCTTGATTTTCATCTTGTGTTTTGCTTTGTTTTTGTAAGGAACCATCTCTTGGTTTGGTCACATCAGTTCAC
AACAGCCATTTGTTTTCAAGGTCAAGGCTCCAGGCAGGTTGTTACTGGTGTTTGCAGCCTGTCAGTACTTGCAGT
ACTGGAATAGGTTCTAGGCTAGTGTCTGCGCGTCACTGTGGTTTTAGCATGGGAGGACTTATTTGAGAAATACTA
CCTTACTTTTCTATGATTTCTTTTTACAGAGTTATAGTGTGTTTACTCCTAAGATGACAGTTCTCTTTGTCTATA
TTCAGCATCTAAGACAAATATTTAAACATTTTAAAGAACCACTGTGTTAAGTTTAGGATTATTTACTTACCAAAT
TAGAAGTTTGACTTTTATGTGTTATACACAATCTTAAAAATTTCACGAATTCACCTTTTTAATAGTATCCATGTAC
ATAATAAAATCAAAGTTTAATTAGCCATTTTCTTTGAATTTTTTTCTAAATAAGGGAAATAACTGTTCTTGGGCC
ACTTTACAGAGATAAATGTATGTGAATGTTATGATAAACGCTTAAATATTTCTAAAATATTAACTTCAAAAAAG
TCTTTTTCAGTTCTTAAATAAAAATTTATTTATTTAAGATACTTATTCGACTTATCTTAACTAAGGTAGCTATGA
ATGTTAAGTAGATGAGGTAACCATTCAGTTAAGTTAAATTGTAGCATTGCCAGGTAGTGAGGCTCACTGTACAAT
TTTCCAGGTAAATGAAATTTCCTGTAGTAAGAGGTCCGTATTTTTGTAACAGCCTTTTAAAAATGCTTTTGGGAA
CCCTCCAGCCTCTTACCAAAAGAGGCTTTAAACCTCATCTTGATTCAGACTGTCAGTCTATTCCTGGGCAGTAGT
ATGTGATGTCCAGCACCCTAACCCCGACTCCCCAGCCCTGGGACTATTCCAGTAGAGTGAAATATTTGTCCCTGT
ACAAAGTGGCCTGAATGACTGTTGGAGTTCCTGTGTCTGGTTTTCCTGTTTATTCCCTGTGATGCCCAGAGTAAT
GGCCCATCCAAAGATGTCCAGATGTCCATGTGCTAGTCTCCAGAACTTGTAACTGTGTTGTTATGTGGCAAAGGG
GAATGAAGGCTGCAGATGGAAGTAAAATAGATTATGCTGGATTATCTGGGTGTGCCCAATTGATCACCGGATCCG
TAAAAGTGGAAGAGAGGCAGATCAGGATGTCAGCGTGATGAGGTGTGAGACAGACTTGACTTGCTGTTGCTGGGA
GGAAGGGGAGGTCATGAGCCAAGGAATGTGGACAGTCTCTTGAAGCTGGAAAGTGTGCATTGGACATCTGGAAGC
CAGAAAAGACAAAGAAATATCCAGAAAGGAACAAAGTCTTGTGGACACCTTGATTTTGGTCCAGTGAGAATATGT
TTGACTTGTTAACCTACAAAACTTTATGATGATAAATTTGTGTTGGTCGTAAGCCACTAAATCACAGTAATTTGT
TATAGCAGCAGATAGAAAACTAATATACTCCCTTTAATATAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1691

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TACAGGCGTGAGCCACCACCCCCGGCTGTATTTTCAGAGAGGAGAGCTTGGTGTTTTTGTGGTGCCAAGTGGTAA
GATAATGTCTCTTTGAGGCTTCCTATGGACTGCCTTTATTTTAGTAAACTCAAGACACCAGTTAACCTCAACAGA
GTTTTGGCCTTATTAGAATTTGTTGTGCATCTTATTGAAAGCCAGGTTTACATCACCTCACCCCATTATTCTTTT
TAGTTAAATAAATTTACCATGCCAAGTAACCAGAATGGAGCAAATTGGTTGATCTTTAAGGCAGTAGGTTTGACT
AGCTAGCTATCATTATTGTCACATCTAATGCTAGGCACCAGAAACCATTTGAGCCAGGAGTGTGAATGAATAATT
CCAGAGACACTTTAGACATTTTTTAATGTTTTATATGAACATTTTACATTTGTGTGATTGCCTTAGATATTAAAT
TTTCCTAGTGCTGATAAAAACAGCAACATTCATAACTTATTTTATATATTGTTCCAAAGAAAAGAATTTGTTTTA
ATGGTTTCAAAATAACTGCACCTGAATTTGTTTATGTGCCTTAAGTTCTCTAGTGCTATTTCAACTTTTTTTTCA
ATCTAAATGAAGCTTACCTTAGATAAGGTTCATATTTGTTTCCTATAGAGTAAATAAACTTCCCCTTCTTAAATT
GTGTAATAAGCACCAACGTGTGGTTGCTTGGCAGAATGAGAATGTTAAGGGAGATTGTTGGATGTTTGGAGTTTC
ATTATATTTTTTGTTTTTATTTTTTGATACCTAGGTGCTTTTTAAAATATTCAGACAAATATCTATCTTACATTG
ATTAAACCCGTGTAAATTCATTTGCAGTATCTACATCGAATGTCAAAAAAGTATACTTATTTTTGTTCCATACTT
ATGTACAATTTTTTCCCTCTTCAGGCTTTTTCATTTACCTTTTTGAAAAAGCACTTACTCTCCCCTTCCCTATCA
CCCCTCCCCCAAGGTTTCTTTATTTAAATTTTTATTGAGAGTTGTTGGAGCTCTAAGACAATACAAATTTAGAGT
TGAACAAAAGTATAATCTGCTTTACAACTAGTATAGACCTAAGGTCATTTGCTTTCAATTAGAGGCTCCAGAGTC
TTCATAGTGGAAAGAATGCTTTGTATTTAATTGTTCTTAGTTAAGTTGTAGCACGTGAATACTTACTTACATGTT
TTGTTTAAATATACTTCTTGCATAGTTTAATTTTTTAAAAGTTGTATCTAATAAAATGTCTTTTAACCATTATTA
CTTGACTATATGGTTGTCTTAAATTTTGTTACG
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FIGURE 1692

TGVSHHPRLYFQRGELGVFVVPSGKIMSL

FIGURE 1693

GTGGGGTTTGCAGAGGAGACAGGGGAGCTTTGTGTACCCGGAGCA**ATG**AACAAGCGGCGACTTCTCTACCCCTCA
GGGTGGCTCCACGGTCCCAGCGACATGCAGGGGCTCCTCTTCTCCACTCTTCTGCTTGCTGGCCTGGCACAGTTC
TGCTGCAGGGTACAGGGCACTGGACCATTAGATACAACACCTGAAGGAAGGCCTGGAGAAGTGTCAGATGCACCT
CAGCGTAAACAGTTTTGTCACTGGCCCTGCAAATGCCCTCAGCAGAAGCCCCGTTGCCCTCCTGGAGTGAGCCTG
GTGAGAGATGGCTGTGGATGCTGTAAAATCTGTGCCAAGCAACCAGGGGAAATCTGCAATGAAGCTGACCTCTGT
GACCCACACAAAGGGCTGTATTGTGACTACTCAGTAGACAGGCCTAGGTACGAGACTGGAGTGTGTGCATACCTT
GTAGCTGTTGGGTGCGAGTTCAACCAGGTACATTATCATAATGGCCAAGTGTTTCAGCCCAACCCCTTGTTCAGC
TGCCTCTGTGTGAGTGGGGCCATTGGATGCACACCTCTGTTCATACCAAAGCTGGCTGGCAGTCACTGCTCTGGA
GCTAAAGGTGGAAAGAAGTCTGATCAGTCAAACTGTAGCCTGGAACCATTACTACAGCAGCTTTCAACAAGCTAC
AAAACAATGCCAGCTTATAGAGATCTCCCACTTATTTGGAAAAAAAAATGTCTTGTGCAAGCAACAAAATGGACT
CCCTGCTCCAGAACATGTGGGATGGGAATATCTAACAGGGTGACCAATGAAAACAGCAACTGTGAAATGAGAAAA
GAGAAAGACTGTGTTACATTCAGCCTTGCGACAGCAATATATTAAAGACAATAAAGATTCCCAAAGGAAAAACA
TGCCAACCTACTTTCCAACTCTCCAAAGCTGAAAAATTTGTCTTTTCTGGATGCTCAAGTACTCAGAGTTACAAA
CCCACTTTTTGTGGAATATGCTTGGATAAGAGATGCTGTATCCCTAATAAGTCTAAAATGATTACTATTCAATTT
GATTGCCCAAATGAGGGGGTCATTTAAATGGAAGATGCTGTGGATTACATCTTGTGTGTGTCAGAGAAACTGCAGA
GAACCTGGAGATATATTTTCTGAGCTCAAGATTCTG**TAA**AACCAAGCAAATGGGGGAAAAGTTAGTCAATCCTGT
CATATAATAAAAAAATTAGTGAGTATAAAATGGTGGCAAATCTACTTTGTTTAAAACAGTATGAATGCCTATTCT
CAGATCACTACATTTAAGGCATTAGAAACTTTTAAAAAGTTATCTTAAAAATATACATAAAATTTGAACAACTTA
AAAATTGAACTAATTTCTAAAATATATCCTATAATTATATAATACACAGACATTTGTTACCATCTAAGCATTTTG
TATATGAAAAAATTATGCAATTTACAAGAAAATATTTTACAAAATAATCTGGAATACTTGCTAAAGCTGTATAAA
AAGTATACTAAATTTTAGGCTGGGCGCAGTGGTTCATGTCTGTAATCCCAGCACTTCGGGAGGCCAAGGTGGGCA
GATCATTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTGTAATTAAAAAAATACAA
AAATTAGCCAAGTGTGGTGGCATGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGTCAGAAGAATTGCTTGAAC
CCAGGTGGTGGAGGTTGCAGTGGGTCAAGATTGCACCACTGCACTGGCACGGAGAAGCGAGACTCCTTTGGGGGA
GAAAAAAACATACTCAATTTAAAAAATTTAATCTATATTTGACAATGTAGCCTAAGGTGCCCATTAGTTGATACA
TCATTATAGGGCAAGTGAAATTCTAGATTAATTCTTGAACAGAAATAAGATTAAGCTGTAAATATATTTAGACTT
TTCACTGCCTGATCTTGAATATCAGTTTCTTTTGGAAAGGAGAAAATGCAACTTTTCTGGCCACTGTTAACAACT
GCAATCTAAAATTTTTTACATCAAATATTGTAAAAAGTTAAATTTCCAAGACAAAGACCAAGAACAGTATCATTA
CTTTGCAAAGGAAAGAAATATAAAGAATACAACTTAAAATTAACCTGTGGATCTGAAATATAAAATGTTATTAAA
AATAAATTAATGTTAAGGCTAGAACTGAAGATTATAGTAACCGGAACAATTATAGCCATTTATTGCAAAGTTTGG
AAGATATCAAGCTTAGTAACATTCTGTTCATTTGCATAAATGTCATGCAGAACAATAACAAGTAGCACTGTTGAA
AAATATAGACATTTATTATAAAATCAATTGGTTTGATAAGAAAGCAATTATTTAAAAAGTTTAATACAAATACAT
GTTAAGTGTACAAATTAGGATTCTTTTGGGCAAACAAGTTGTTATCTAAAGAAGAAGCAAAACCTCCTTAACAGT
TGTAATAAAACCTATGCCTGAAAAGTTGGTGGCTATTAAAAAA

FIGURE 1694

MNKRRLLYPSGWLHGPSDMQGLLFSTLLLAGLAQFCCRVQGTGPLDTTPEGRPGEVSDAPQRKQFCHWPCKCPQQ
KPRCPPGVSLVRDGCGCCKICAKQPGEICNEADLCDPHKGLYCDYSVDRPRYETGVCAYLVAVGCEFNQVHYHNG
QVFQPNPLFSCLCVSGAIGCTPLFIPKLAGSHCSGAKGGKKSDQSNCSLEPLLQQLSTSYKTMPAYRDLPLIWKK
KCLVQATKWTPCSRTCGMGISNRVTNENSNCEMRKEKRLCYIQPCDSNILKTIKIPKGKTCQPTFQLSKAEKFVF
SGCSSTQSYKPTFCGICLDKRCCIPNKSKMITIQFDCPNEGSFKWKMLWITSCVCQRNCREPGDIFSELKIL

FIGURE 1695

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GGGCTGCGGTACGGCGTGTTGGTCCCAGCGGTTCAGCTGAGGTAGGGACGTGCTGTAGGCCGGAATGTTACCGGC
TGTTGGATCTGCGGATGAGGAGGAGGATCCTGCGGAGGAGGATTGTCCTGAATTGGTTCCCATGGAGACGACGCA
AAGCGAGGAGGAGGAAAAGTCTGGCCTCGGCGCCAAGATCCCAGTCACAATTATCACCGGGTATTTAGGTGCTGG
GAAGACAACACTTCTGAACTATATTTTGACAGAGCAACATAGTAAAAGAGTAGCGGTCATTTTAAATGAATTTGG
GGAAGGAAGTGCGCTGGAGAAATCCTTAGCTGTCAGCCAAGGTGGAGAGCTCTATGAAGAGTGGCTGGAACTTAG
AAACGGTTGCCTCTGCTGTTCAGTGAAGGACAATGGCCTTAGAGCTATTGAGAATTTGATGCAAAAGAAGGGGAA
ATTTGATTACATACTGTTAGAGACCACTGGATTGGCAGACCCAGGTGCAGTGGCTTCTATGTTTTGGGTTGATGC
TGAATTAGGGAGTGATATTTACCTTGATGGTATCATAACTATTGTGGATTCAAAATATGGATTAAAACATTTAAC
AGAAGAGAAACCTGATGGCCTTATCAATGAAGCTACTAGGCAAGTTGCTTTGGCAGATGCCATTCTCATTAATAA
AACAGACCTGGTTCCAGAAGAAGATGTAAAGAAATTAAGAACGACAATTAGATCCATAAATGGACTAGGACAAAT
CTTAGAAACACAAAGATCAAGAGTTGATCTCTCTAATGTATTAGATCTTCATGCCTTTGATAGTCTCTCTGGAAT
AAGTTTGCAGAAAAAACTTCAGCATGTGCCAGGAACACAACCTCACCTTGATCAGAGTATTGTTACAATCACATT
TGAAGTACCAGGAAATGCAAAGGAAGAACATCTTAATATGTTTATTCAGAATCTCCTGTGGGAAAAGAATGTGAG
AAACAAGGACAATCACTGCATGGAGGTCATAAGGCTGAAGGGATTGGTGTCAATCAAAGACAAATCACAACAAGT
GATTGTCCAGGGTGTCCATGAGCTCTATGATCTGGAGGAGACTCCAGTGAGCTGGAAGGATGACACTGAGAGAAC
AAATCGATTGGTCCTCCTTGGCAGAAATTTAGATAAGGATATCCTTAAACAGCTGTTTATAGCTACTGTGACAGA
AACAGAAAAGCAGTGGACAACACGTTTCCAAGAAGATCAAGTTTGTACATAACACTAGAGGCATTTCTTATCAAA
AGGATTGGATAATAAAAATAAGTTTCTACTGGGTATATTTCAAGCATTTATTTATTACTTTAGTTACGAATTCCA
ATATACTTTAAAATGGTATTTGTTTTACAGCATACATAAAATGTAGCAAATCAGTACTGTAAAACATTTAACATT
CATACAGTTATATATAATATCCTTTTTTTTAAAGAATGGTATTTCACAAAAATATCTTTTGAAATTGGCTTTGGA
GTTTACATATACTGAACATGAAAGTTTATAATAATGATGATACAACTTTCAACATTGTCATTTTTTCTTAGAACT
TCAGCTGATTGCAGAGATATAATGATTACATTGTTATTAAATTTTTTTAACACAAGTAAGTGTCACCATTTTATG
ACATGAAATAAAAGGTTATGACTGTTATCG
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FIGURE 1696

MLPAVGSADEEEDPAEEDCPELVPMETTQSEEEEKSGLGAKIPVTIITGYLGAGKTTLLNYILTEQHSKRVAVIL
NEFGEGSALEKSLAVSQGGELYEEWLELRNGCLCCSVKDNGLRAIENLMQKKGKFDYILLETTGLADPGAVASMF
WVDAELGSDIYLDGIITIVDSKYGLKHLTEEKPDGLINEATRQVALADAILINKTDLVPEEDVKKLRTTIRSING
LGQILETQRSRVDLSNVLDLHAFDSLSGISLQKKLQHVPGTQPHLDQSIVTITFEVPGNAKEEHLNMFIQNLLWE
KNVRNKDNHCMEVIRLKGLVSIKDKSQQVIVQGVHELYDLEETPVSWKDDTERTNRLVLLGRNLDKDILKQLFIA
TVTETEKQWTTRFQEDQVCT

FIGURE 1697A

CAGGGCTGGCTTTTTTTTTTTTAATAAGATAGCTGGTGCCCAAGATTGTTTTCCACCTTAAGGATAAAACCTGTT
AAGAAAGCCTGAACAATTACAAAAAAGGAAGAAAAGGAGACTTGGCCAACTGGTGTCAGGAGTCTTAACAAGGTC
ATAGTTTGCCAGCCCCTGCCCTAAACAAATAATTCTTGAATGCCTACTGTGGTGTGTAAGATATGAGTAAATACC
AGGGATACACAGAGAACAAAAGAGAAAAACTGCTATTCTTGTGAAACTTGGAAGTTGGAGGAGACTTGGAAGATG
CAGAACTGGATGACTACTCATTCTCATGCTATAGCCAGTTGGAAGTGAATGGATCGCAGCACTCACTGACCTGTG
CTTTTGAGGACCCAGATGTCAACACCACCAATCTGGAATTTGAAATATGTGGGGCCCTCGTGGAGGTAAAGTGCC
TGAATTTCAGGAAACTACAAGAGATATATTTCATCGAGACAAAGAAATTCTTACTGATTGGAAAGAGCAATATAT
GTGTGAAGGTTGGAGAAAAGAGTCTAACCTGCAAAAAAATAGACCTAACCACTATAGTTAAACCTGAGGCTCCTT
TTGACCTGAGTGTCATCTATCGGGAAGGAGCCAATGACTTTGTGGTGACATTTAATACATCACACTTGCAAAAGA
AGTATGTAAAAGTTTTA**ATG**CACGATGTAGCTTACCGCCAGGAAAAGGATGAAAACAAATGGACGCATGTGAATT
TATCCAGCACAAAGCTGACACTCCTGCAGAGAAAGCTCCAACCGGCAGCAATGTATGAGATTAAAGTTCGATCCA
TCCCTGATCACTATTTTAAAGGCTTCTGGAGTGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATA
ATAGCTCAGGGGAGATGGATCCTATCTTACTAACCATCAGCATTTTGAGTTTTTTCTCTGTCGCTCTGTTGGTCA
TCTTGGCCTGTGTGTTATGGAAAAAAAGGATTAAGCCTATCGTATGGCCCAGTCTCCCCGATCATAAGAAGACTC
TGGAACATCTTTGTAAGAAACCAAGAAAAAATTTAAATGTGAGTTTCAATCCTGAAAGTTTCCTGGACTGCCAGA
TTCATAGGGTGGATGACATTCAAGCTAGAGATGAAGTGGAAGGTTTTCTGCAAGATACGTTCCTCAGCAACTAG
AAGAATCTGAGAAGCAGAGGCTTGGAGGGGATGTGCAGAGCCCCAACTGCCCATCTGAGGATGTAGTCATCACTC
CAGAAAGCTTTGGAAGAGATTCATCCCTCACATGCCTGGCTGGGAATGTCAGTGCATGTGACGCCCCTATTCTCT
CCTCTTCCAGGTCCCTAGACTGCAGGGAGAGTGGCAAGAATGGGCCTCATGTGTACCAGGACCTCCTGCTTAGCC
TTGGGACTACAAACAGCACGCTGCCCCCTCCATTTTCTCTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTC
AGGGTCAGCCCATTCTTACTTCCCTGGGATCAAATCAAGAAGAAGCATATGTCACCATGTCCAGCTTCTACCAAA
ACCAG**TGA**AGTGTAAGAAACCCAGACTGAACTTACCGTGAGCGACAAAGATGATTTAAAAGGGAAGTCTAGAGTT
CCTAGTCTCCCTCACAGCACAGAGAAGACAAAATTAGCAAAACCCCACTACACAGTCTGCAAGATTCTGAAACAT
TGCTTTGACCACTCTTCCTGAGTTCAGTGGCACTCAACATGAGTCAAGAGCATCCTGCTTCTACCATGTGGATTT
GGTCACAAGGTTTAAGGTGACCCAATGATTCAGCTATTTAAAAAAAAAAAGAGGAAAGAATGAAAGAGTAAAGGAA
ATGATTGAGGAGTGAGGAAGGCAGGAAGAGAGCATGAGAGGAAAGACAGACAGGAAAATAAAAAATGATAGTTGC
CATTATTAGGATTTAATATATATCCAGTGCTTTGCAAGTGCTCTGCGCACCTTGTCTCACTCCATCCTGACAATA
ATCCTGGGAGGTGTGTGCAATTACTACGACTACTCTCTTTTTTATAGATCATTAAATTCAGAACTAAGGAGTTAA
GTAACTTGTCCAAGTTGTTCACACAGTGAAGGGAGGGGCCAAGATATGATGGCTGGGAGTCTAATTGCAGTTCCC
TGAGCCATGTGCCTTTCTCTTCACTGAGGACTGCCCCATTCTTGAGTGCCAAACGTCACTAGTAACAGGGTGTGC
CTAGATAATTTATGATCCAAACTGAGTCAGTTTGGAAAGTGAAAGGGAAACTTACATATAATCCCTCCGGGACAA
TGAGCAAAAACTAGGACTGTCCCCAGACAAATGTGAACATACATATCATCACTTAAATTAAAATGGCTATGAGAA
AGAAAGAGGGGGAGAAACAGTCTTGCGGGTGTGAAGTCCCATGACCAGCCATGTCAAAAGAAGGTAAAGAAGTCA
AGAAAAAGCCATGAAGCCCATTTGATTTCATTTTTCTGAAAATAGGCTCAAGAGGGAATAAATTAGAAACTCACA
ATTTCTCTTGTTTGTTACCAAGACAGTGATTCTCTTGCTGCTACCACCCAACTGCATCCGTCCATGATCTCAGAG
GAAACTGTCGCTGACCCTGGACATGGGTACGTTTGACGAGTGAGAGGAGGCATGACCCCTCCCATGTGTATAGAC
ACTACCCCAACCTAAATTCATCCCTAAATTGTCCCAAGTTCTCCAGCAATAGAGGCTGCCACAAACTTCAGGGAG
AAAGAGTTACAAGTACATGCAATGAGTGAACTGACTGTGGCTACATTCTTGAAGATATACGGAAGAGACGTATTA
TTAATGCTTGACATATATCATCTTGCCTTTCTTGGTCTAGACTGACTTCTAATGACTAACTCAAAGTCAAGGCAA
CTGAGTAATGTCAGCTCAGCAAAGTGCAGCAAACCCATCTCCCACAGGCCTCCAAACCCTGGCTGTTCACAGAAC
CACAAAGGGCAGATGCTGCACAGAAAACTAGAGAAGGGGTCATAGGTTCATGGTTTTGTTTGAGATTTGTTGCTA
CTGTTTTTCTGTTTTGAATTTTCTTCTTTGTTCTGTTTTTACTTTATTTAGGGGGACTAGGTGTTTCTGATATTT
TAGTTTTCTTGTTTGTTTTGTTTGTGTTGTCTGTGAATGGGGTTTTAACTGTGGATGAATGGACCTTATCTGTT
GGCTTAAAGGACTGGTAAAATCAGACCATCTTATTCTTCAGGTGAATGTTTTACTTTCCAAAGTGCTCTCCTCTG
CACCAGCAGTAATAAATACAATGCCATAATCCCTTAGGTTTGCCTAGTGCTTTTGCAATTTTCAAAGCACTTCCA
TAAGCATTCCTTCCACCTCCTTGATAGGCATTTATGGAAAGCCTGCTACATGTCAATCATACTGTTAGGCACAGG
GGACCTAAAGACACATAAAAGGATGGCATTCTGCCTCATAAATTGCAAAACCTAATGAAAGTGACTGCTTGGTAA
ACAAATTATTATTATATTATAAAATGCTATAAAAGAGCCATATTGAAAGTGCCCTGTTGGAGACAGGGCAAATGC

FIGURE 1697B

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CACAAAAATGATGTAAATTTACATGGAGGAAAAGTAGAATCTGCCTGGTTTGTAGGCAGCAGAAGACATTTTTCA
TCAGTGGGCAGGTGTTCTTTACCTTTTGTAGAAATGGGAGTCAAGTCTCAAATAGGAGGCTCCACAAAATCTCAT
GCCAGGTCTCTGATACCTTATTCACAGAAGTTCTTTGAAGTATTTATTGTTATTTTCTTTGACTTATGGGAAAAC
TGGGACACAGGAAGACAGGTAAATTACCCAACCTCACACGTTAAGTCAGAACTGGGAGCCATAATTTTGTATCCC
TGGTATAAATAGACAATCTCTTGAAGAAATGAAGAGATGACCATAGAAAAACATCGAGATATCTCCAGCTCTAAA
ATCCTTTGTTTCAATGTTGTTTGGCATATGTTATCTTTGGAATTTAGTGTCTGAGCCTCTGTCTGTTACTGTAGT
ATTTAAAATGCATGTATTATAATCATATAATCATAACTGCTGTTAATTCTTGATTATATACCTAGGGACAATGTG
TAATGTAAGATTACTAATTGGTTCTGCCCAATCTCCTTTCAGATTTTATTAGGAAAAAAAATAAACCTCCTGAT
CGGAGACAATGTATTAATCAGAAGTGTAAACTGCCAGTTCTATATAGCATGAAATGAAAAGACAGCTAATTTGGT
CCAACAAACATGACTGGGTCTAGGGCACCCAGGCTGATTCAGCTGATTTCCTACCAGCCTTTGCCTCTTCCTTCA
ATGTGGTTTCCATGGGAATTTGCTTCAGAAAAGCCAAGTATGGGCTGTTCAGAGGTGCACACCTGCATTTTCTTA
GCTCTTCTAGAGGGGCTAAGAGACTTGGTACGGGCCAGGAAGAATATGTGGCAGAGCTCCTGGAAATGATGCAGA
TTAGGTGGCATTTTTGTCAGCTCTGTGGTTTATTGTTGGGACTATTCTTTAAAATATCCATTGTTCACTACAGTG
AAGATCTCTGATTTAACCGTGTACTATCCACATGCATTACAAACATTTCGCAGAGCTGCTTAGTATATAAGCGTA
CAATGTATGTAATAACCATCTCATATTTAATTAAATGGTATAGAAGAAC
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FIGURE 1698

MHDVAYRQEKDENKWTHVNLSSTKLTLLQRKLQPAAMYEIKVRSIPDHYFKGFWSEWSPSYYFRTPEINNSSGEM
DPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLEHLCKKPRKNLNVSFNPESFLDCQIHRVDD
IQARDEVEGFLQDTFPQQLEESEKQRLGGDVQSPNCPSEDVVITPESFGRDSSLTCLAGNVSACDAPILSSSRSL
DCRESGKNGPHVYQDLLLSLGTTNSTLPPPFSLQSGILTLNPVAQGQPILTSLGSNQEEAYVTMSSFYQNQ

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FIGURE 1699

TTCTCTTCTAGTGATGTGGCACGGTGTCCGTGAGCTTGTGACTGCAGCGATACGCTGCXTTGTGGCGTGTCGGCC
AGGTGGCGACTACAGCAGGGACTGGCTGCCAACCCCTCCGGCTACGGGCCCCTTACCGAGCTCCCAGACTGGTCA
TATGCGGGGGTATGATCCTGCTTAATTGGATAATTGGTGACTGAGGAAGATGGTGAAGATTTTTTCTACTTGTTA
TTTACTATGGCCGCCCTGCTCCCCCAATGAAAGGCCAGCTTCGAAGAAAAGCTGAAAGGGAGACGTTTGCAGTGA
GTGAGACGAGTTGTACTGCTGTCACAGGAAATGGACGCTGGATTACAAGCATGGCAGCTCAGGCAGCAGAAGTTG
CAGGAAGAACAAAGGAAGCAGGAAAATGCTCTTAAACCCAAAGGGGCTTCACTGAAGAGCCCACTTCCAAGTCAA
TAAAAAGCAACTCCTGCCTCCCTTCCTC

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FIGURE 1700

CGGGCGAGAAGGGCAGACGGGACATGCAGCCTCTTCCGCCTGAGCCCCGGAAGTGATGTGGCTGCGGCATCGCGG
CCTCGCT**ATG**TCTGCCATTTTCAATTTTCAGAGTCTATTGACTGTAATCTTGCTGCTTATATGTACCTGTGCTTA
TATTCGATCCTTGGCACCCAGCCTCCTGGACAGAAATAAAACTGGATTGTTGGGTATATTTTGGAAGTGTGCCAG
AATTGGTGAACGGAAGAGTCCTTATGTTGCAGTATGCTGTATAGTAATGGCCTTCAGCATCCTCTTCATACAG**TA**
GCTGGGGAAAATGCCAGAATGTAGTTGCCATCAGATTTGATTGTGAACAAGGACTGACTGCAGAAAATAATGGAA
AGGATGTTTAACTCTTTTATCTCCGAACATTGAATGAGATAAATTTCCAGATGCTGTTCTCTATTTTAATGTTAT
TGGACCAATGTTCTGTATAAACAATTAAGATGTAACCATTTAATAGTCTGTAACAATCAACCTCAGTACTGTCAC
TACAATATTACATTCTGCAAATGTTATTCTGTTGTATCAGATACAAAATTTTAGTGAGGTATCTCTAAGGCACAT
AGTAGAAAACAAAATTGGTTAATTACTCAAGTTCCTTTCACTGTGATTTGGAAATGATTTAATCTTTATAGAATG
AGAACCTTTTTTGGACTAGCTTTTTTATTAAAATGGCTCAATTTGTGTTGATAAGGATTGCATTAATATTTAATA
GTGCTTGCTTTTCCTCTGGGCACACCATTTTGATCATTAACCAGAGTACCTCTACTCTTAGCAAACTCTAGTTTA
TGACAAGTATTTAAAATATTTAAAACAAGCTTATGCAGTTCTTAAGGACGAAGGTAAATGAGATGTAACTTAAAA
ATAGTATTGGGAAAATGTTGATAGTTAACATTAGTGGATTTAGACTAGCCAAATGACATAGTAGGCTCTGAAACA
TCTTGTCAAGTATATGTATTTTGTGCATGAATTTTTGCTGGAAAGCTGTCTTTCTCTGAAAAACACAACGTTCTT
AGAATGAAAAGAACAATTATAAAATAAAAAAAAAATTTAAAAAAAACTGGGCGGGGG

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FIGURE 1701

MSAIFNFQSLLTVILLLICTCAYIRSLAPSLLDRNKTGLLGIFWKCARIGERKSPYVAVCCIVMAFSILFIQ

FIGURE 1702

GGGAGAACGCGAGTGTTAGTTAACATGGCTTGGTGTGTGGCCACAGCTGACCCGGCGCATACCTCCCGTCCTCTC
TTTACAGGGCTGGCGGTGTCTCGGGGCTCGGCTGGCCATGCCTGGAGCGCGGGGTTTGACTGGGCCGCCGTTGTT
GTAGTGACCGGGAGGCGCTGCCGCTCTGGGCAGACGGTTCCGGGAGCCGCACGGTCCCCTCTCCTTCCCCATCCT.
CTCCCCTCCCCTCTCCGGGTTCCCCCACCCACAGGAGCCTTGGGCCGACCACTCCCCCG**ATG**GCCTCAGCCACGG
AGGACCCCGTTCTGGAGCGTTATTTCAAAGGCCACAAAGCTGCGATCACCTCCTTGGACCTCAGCCCCAACGGCA
·AGCAACTTGCTACTGCTTCTTGGGATACCTTTCTCATGCTATGGAATTTCAAGCCACATGCTAGAGCTTACAGAT
ATGTGGGTCACAAGGATGTTGTAACCAGCGTGCAGTTTTCTCCACATGGAAACTTATTGGCGTCTGCCTCACGAG
ACAGAACCGTGAGACTCTGGATTCCTGATAAGAGAGGAAAATTCTCAGAATTTAAAGCTCATACAGCTCCAGTTC
GAAGTGTAGACTTTTCAGCTGATGGCCAGTTTCTAGCTACAGCTTCTGAAGACAAATCCATAAAAGTATGGAGCA
TGTATCGCCAGCGCTTCCTGTATTCCTTGTATCGACATACACACTGGGTACGCTGTGCCAAATTTTCACCCGATG
GAAGACTAATTGTGTCATGTAGTGAGGATAAAACTATTAAAATTTGGGATACCACAAATAAGCAATGTGTTAATA
ACTTCTCAGATTTCGTTGGATTTGCAAATTTTGTGGACTTTAACCCTAGTGGTACATGCATAGCTTCAGCAGGTT
CTGATCAAACTGTGAAAGTCTGGGATGTAAGAGTGAACAAATTACTACAGCATTACCAAGTTCACAGCGGTGGAG
TTAATTGCATATCATTCCATCCTTCGGGTAACTATCTCATCACAGCTTCTTCAGATGGTACCCTTAAGATTCTGG
ACCTCTTAGAAGGAAGGCTCATCTATACACTTCAAGGACATACGGGACCTGTCTTTACTGTTTCATTTTCAAAAG
GTGGAGAGCTATTTGCATCAGGAGGTGCAGACACACAGGTCTTATTATGGAGGACTAACTTTGATGAATTGCATT
GTAAAGGTCTTACCAAAAGAAATCTCAAAAGATTACATTTTGATTCACCACCACATCTTCTTGATATCTACCCAA
GAACACCACATCCCCATGAGGAAAAAGTTGAGACTGTAGAAGATTTTTTTCTTCATCTTTTGAGATTAATCCAAA
GCTTGAGG**TAA**TCGATTTGCAGATCTCTACTCCCCCTGTTATGGATATCCTTTCTTTTGATTCTACCACAACAAC
AGAAACCAGTGGTAGGACTCTGCCAGACAAGGGTGAAGAGGCCTGTGGATATTTCTTGAACCCTTCCTTAATGTC
ACCAGAATGTTTGCCAACAACCACGAAAAAGAAAACAGAAGACATGAGTGACCTCCCCTGTGAAAGTCAAAGGAG
CATACCTCTCGCTGTGACTGATGCTTTAGAGCATATTATGGAACAACTCAATGTTTTGACACAGACTGTTTCAAT
CTTGGAGCAGCGACTGACTTTGACAGAGGATAAGCTGAAAGACTGCCTTGAAAATCAGCAAAAGCTTTTCAGTGC
TGTCCAACAGAAAAGCTGAATAAAAAATTCATTTTCATTTGTTGGGCAGAGGCCCAATAAATGAACAAATGTACA
TACACTCAGGAAGGTAGTACAAGATACTCCATACAACACAACCATGTGCTATTTATCATGGCATTTCTTAAAAGG
GTGAGCAACAGAACAAAAGGCAGAAAAGGCATACCTAAGGACTAATTTAAACACATATCAATGTGAAGGACTAAT
TTAAATTACTATCATTTATGATTGCAGTAATAAAGTGATAAGCATTCAAGCAACTCTGTATTTTCCCCATATTAT
TTTAAATGTCCATTTTCATTTATAGGCCAAATCCTGCCAGGAAAGTAACCAGATCTCTGGATTTCACTGTTAAGT
CATTTCAGATTGACCATATTCAGACAGTCATGGGGTGAAATAATTCACTTACCTCCAAAATAGCATCCTATATGC
CAATAATGAGTTATTGATCTGACTAGTTGTATGTCTTTCTGTTCAAAATAGAAATTATCCTTTCTTACTAATGCC
TTGAAAGAATGAACAAATAAAAATTCCCAGACCACAGAATTTCCACAGCAAGAATACACTTATTTTAATTAACAA
TAGCACAGATATAGCATAGGGCAGTGGGTTTTTTAGTTAATTTATGGCGTACTTTGTTTATCCATTGGCCAACCT
GAAGGAAATGAAACTCACCTATCTTTCTATCACAGATGAATGTGCTAGATGAATGATTTGGGTTGTATCTGATCA
TGGTTCACAAAAATTATGTTAGTGTGTTTTCAGTATGCTAAAAAGTCAGAGTGATACAAAAGTGATATTTAAAAA
TATACACACATGTATGTACACATGCTTCAGAAATATTGTTGCTTAGGGTGATTTGGGCAGCTAAATAGTAAGTAC
TTTTTAAAATTTTTGCATCATCATCTTCCTATTTAATGAATTGTGATTTAAAACAAAATGAAAATAAGCCAGGTA
TTCTAAAAGATCCTGGATACAAATTAAGAATTTTGCTTTATTTTAAACCAAATTGAGATTAAATTGAAGAAAAGC
AAGCAAATTAATTTCAGCTTGATTATCAACCTGTATCAAGAACAAAAATGGGAGGAGGTGTCCACATTTATGGTG
TGTATAGGTAACATGGGGAAAATGCTATTCTGTGTTTTGGAAAAGAAGAAATAGTGCCGTCCTATTTATTTCTAT
ATTTAGAAATTTTTCTCAAAGAAATTTCAATTGTATCTATGAGATGGGTTTCTAAGTATCTTATTGTGTGTTATA
AGTGCCTTTTAATATCATACTAAGTGTGAGCTTCTGGACATTTTCAAGAGCTTACAAAAACTAAGTGGCATTGTA
TTTTTATAACCCCATTGAGAAGACTAAGTAAGAAATGAAATGTCCTATCAATTTTATTTTGTCATGCTTCAAACA
ATAAAGACATTTCTGCTTTAAAAGACAAACAAAAAAAA

FIGURE 1703

MASATEDPVLERYFKGHKAAITSLDLSPNGKQLATASWDTFLMLWNFKPHARAYRYVGHKDVVTSVQFSPHGNLL
ASASRDRTVRLWIPDKRGKFSEFKAHTAPVRSVDFSADGQFLATASEDKSIKVWSMYRQRFLYSLYRHTHWVRCA
KFSPDGRLIVSCSEDKTIKIWDTTNKQCVNNFSDFVGFANFVDFNPSGTCIASAGSDQTVKVWDVRVNKLLQHYQ
VHSGGVNCISFHPSGNYLITASSDGTLKILDLLEGRLIYTLQGHTGPVFTVSFSKGGELFASGGADTQVLLWRTN
FDELHCKGLTKRNLKRLHFDSPPHLLDIYPRTPHPHEEKVETVEDFFLHLLRLIQSLR

FIGURE 1704

GGAATTCGGCACGAGCCCGATTCCGCGCCCGCC**ATG**GCCGACAAAATGGACATGTCTCTGGACGACATCATTAAA
CTGAACCGGAGCCAGCGAGGCGGCCGGGGCGGGGGCCGCGGCCGGGCCGGCTCCAGGGCCGGCCGCCGCGGTGGG
GCGCAGGCCGCCGCGCGAGTGAATCGAGGCGGCGGGCCCATCCGGAACCGGCCGGCCATCGCCCGCGGCGCGGCC
GGCGGAGGCGGCAGGAACCGACCGGCGCCCTACAGCAGGCCAAAACAACTTCCCGACAAGTGGCAGCACGATCTT
TTCGACAGTGGCTTCGGCGGTGGTGCCGGCGTGGAGACAGGTGGGAAACTGCTGGTGTCCAATCTGGATTTTGGA
GTCTCAGACGCCGATATTCAGGAACTCTTTGCTGAATTTGGAACGCTGAAGAAGGCGGCTGTGCACTATGATCGC
TCTGGTCGCAGCTTAGGAACAGCAAACGTGCACTTTGAGCGGAAGGCAGATGCCCTGAAGGCCATGAAGCAGTAC
AACGGCTTCCCTCTGGATGGCCGCCCCATGAACATTCAGCTTGTCACGTCACAGATTGACGCACAGCGGAGGCCT
GCACAGAGCGTAAACAGAGGTGGCATGACTAGAAACCGTGGCGCTGGAGGTTTTGGTGGTGGTGGAGGCACCCGG
AGAGGCACCCGCGGAGGCGCCCGTGGAAGAGGCAGAGGTGCCGGCAGGAATTCAAAGCAGCAGCTTTCGGCAGAG
GAGCTGGATGCCCAGCTGGACGCCTATAATGCGAGAATGGACACCAGT**TAA**ACAGACCAGCAAATCCGCGTGCGG
AACAGGACCCAGGCGTCTCCTCTTGCTCCCTGGTTGGGGGGCGGTGGCTGGGGCTGTGCGCCCAATGATGGATTT
GTTTCTTTTATGTTTTAAAATAGGATTTAAAAACTCATGTAAAGGTTTTTTTTTTTCTTTTTTTTTTTTTTTAAT
TCTGAAACAGACCTGTTTTGTACCGAGTTATTTTTGGGATAAATTTTACTGGTTGCTGTTGTGGAGAAGGTGGCG
TTTCCACCTTTTCCATAATAAAATAGAAATGTGTGTAA

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FIGURE 1705

MADKMDMSLDDIIKLNRSQRGGRGGGRGRAGSRAGRRGGAQAAARVNRGGGPIRNRPAIARGAAGGGGRNRPAPY
SRPKQLPDKWQHDLFDSGFGGGAGVETGGKLLVSNLDFGVSDADIQELFAEFGTLKKAAVHYDRSGRSLGTANVH
FERKADALKAMKQYNGFPLDGRPMNIQLVTSQIDAQRRPAQSVNRGGMTRNRGAGGFGGGGGTRRGTRGGARGRG
RGAGRNSKQQLSAEELDAQLDAYNARMDTS

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FIGURE 1706

GCGGCTGTCCAGTCGTAGCCCGGCCGCCCGCGCCTGTCCGGTCCGGTCCGGCCACGGAGGCAGCGCAGCGGCGGG
ACTCCGAGCCTACCCCGCCGAGTGAGCTGCGCCGCACCGTGCCGTCCCACCCGGCACCCACCAGTCCG**ATG**GGGC
CGCAGCGGCGGCTGTCCCCTGCCGGGGCCGCCCTACTCTGGGGCTTCCTGCTCCAGCTGACAGCCGCTCAGGAAG
CAATCTTGCATGCGTCTGGAAATGGCACAACCAAGGACTACTGCATGCTTTATAACCCTTATTGGACAGCTCTTC
CAAGTACCCTAGAAAATGCAACTTCCATTAGTTTGATGAATCTGACTTCCACACCACTATGCAACCTTTCTGATA
TTCCTCCTGTTGGCATAAAGAGCAAAGCAGTTGTGGTTCCATGGGGAAGCTGCCATTTTCTTGAAAAAGCCAGAA
TTGCACAGAAAGGAGGTGCTGAAGCAATGTTAGTTGTCAATAACAGTGTCCTATTTCCTCCCTCAGGTAACAGAT
CTGAATTTCCTGATGTGAAAATACTGATTGCATTTATAAGCTACAAAGACTTTAGAGATATGAACCAGACTCTAG
GAGATAACATTACTGTGAAAATGTATTCTCCATCGTGGCCTAACTTTGATTATACTATGGTGGTTATTTTTGTAA
TTGCGGTGTTCACTGTGGCATTAGGTGGATACTGGAGTGGACTAGTTGAATTGGAAAACTTGAAAGCAGTGACAA
CTGAAGATAGAGAAATGAGGAAAAAGAAGGAAGAATATTTAACTTTTAGTCCTCTTACAGTTGTAATATTTGTGG
TCATCTGCTGTGTTATGATGGTCTTACTTTATTTCTTCTACAAATGGTTGGTTTATGTTATGATAGCAATTTTCT
GCATAGCATCAGCAATGAGTCTGTACAACTGTCTTGCTGCACTAATTCATAAGATACCATATGGACAATGCACGA
TTGCATGTCGTGGCAAAAACATGGAAGTGAGACTTATTTTTCTCTCTGGACTGTGCATAGCAGTAGCTGTTGTTT
GGGCTGTGTTTCGAAATGAAGACAGGTGGGCTTGGATTTTACAGGATATCTTGGGGATTGCTTTCTGTCTGAATT
TAATTAAAACACTGAAGTTGCCCAACTTCAAGTCATGTGTGATACTTCTAGGCCTTCTCCTCCTCTATGATGTAT
TTTTTGTTTTCATAACACCATTCATCACAAAGAATGGTGAGAGTATCATGGTTGAACTCGCAGCTGGACCTTTTG
GAAATAATGAAAAGTTGCCAGTAGTCATCAGAGTACCAAAACTGATCTATTTCTCAGTAATGAGTGTGTGCCTCA
TGCCTGTTTCAATATTGGGTTTTGGAGACATTATTGTACCAGGCCTGTTGATTGCATACTGTAGAAGATTTGATG
TTCAGACTGGTTCTTCTTACATATACTATGTTTCGTCTACAGTTGCCTATGCTATTGGCATGATACTTACATTTG
TTGTTCTGGTGCTGATGAAAAAGGGGCAACCTGCTCTCCTCTATTTAGTACCTTGCACACTTATTACTGCCTCAG
TTGTTGCCTGGAGACGTAAGGAAATGAAAAAGTTCTGGAAAGGTAACAGCTATCAGATGATGGACCATTTGGATT
GTGCAACAAATGAAGAAAACCCTGTGATATCTGGTGAACAGATTGTCCAGCAA**TAA**TATTATGTGGAACTGCTAT
AATGTGTCATTGATTTTCTACAAATAGACTTCGACTTTTTAAATTGACTTTTGAATTGACAATCTGAAAGAGTCT
TCAATGATATGCTTGCAAAAATATATTTTTATGAGCTGGTACTGACAGTTACATCATAAATAACTAAAACGCTTT
GCTTTTAATGTTAAAGTTGTGCCTTCACATTAAATAAAACATATGGTCTGTGTAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1707

MGPQRRLSPAGAALLWGFLLQLTAAQEAILHASGNGTTKDYCMLYNPYWTALPSTLENATSISLMNLTSTPLCNL
SDIPPVGIKSKAVVVPWGSCHFLEKARIAQKGGAEAMLVVNNSVLFPPSGNRSEFPDVKILIAFISYKDFRDMNQ
TLGDNITVKMYSP.SWPNFDYTMVVIFVIAVFTVALGGYWSGLVELENLKAVTTEDREMRKKKEEYLTFSPLTVVI
FVVICCVMMVLLYFFYKWLVYVMIAIFCIASAMSLYNCLAALIHKIPYGQCTIACRGKNMEVRLIFLSGLCIAVA
VVWAVFRNEDRWAWILQDILGIAFCLNLIKTLKLPNFKSCVILLGLLLLYDVFFVFITPFITKNGESIMVELAAG
PFGNNEKLPVVIRVPKLIYFSVMSVCLMPVSILGFGDIIVPGLLIAYCRRFDVQTGSSYIYYVSSTVAYAIGMIL
TFVVLVLMKKGQPALLYLVPCTLITASVVAWRRKEMKKFWKGNSYQMMDHLDCATNEENPVISGEQIVQQ

FIGURE 1708A

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GAATTCGGCACGAGTCATGGCGGCGGGAGCGCGCGGCTTCCCAGGCCCCGCCGCTCCGCAGGGCTGCTGGCGTTGCTG
CTGTTGAGAGGCGGCGGCGGCGGCGCAGGCGGGCGGGAAGGATGGTGTTTCTGCGACTGGAGCGGCAGGTGCGGA
CCGGGAGCCGGACCGAGGTTTGGCAGAAGCAACGTGTGCTCGGGAGCAACCGGCGCGGGTGCCACTGAGGCAGCG
GAGGGAGGCAGGATCGACTGACGGGCGAACGGACGGACGGACGGAAGGCGACTCGAGGGCCGGCCCCGGAGCCGC
GCCGTGGGCGAGATGCCGGGGCCGCCGGCGTTGCGGCGGAGGCTGCTGCTGCTGCTGCTGGTCCTCCTGATCGCC
GGCAGTGCTGGGGCCGCGCCACTTCCGCAAACAGGTGCAGGGGAGGCGCCACCTGCTGCAGAAGTTTCCTCATCT
TTTGTGATCCTGTGTGTGTGCAGTTTAATAATATTAATAGTGTTAATTGCAAACTGTGTATCCTGCTGTAAGGAC
CCAGAAATAGACTTTAAGGAATTTGAAGATAATTTTGATGATGAGATAGATTTCACACCACCAGCAGAAGACACT
CCCTCTGTTCAGTCCCCAGCAGAGGTCTTCACACTTTCAGTACCAAATATTTCACTCCCAGCTCCCTCGCAATTC
CAGCCTTCTGTAGAGGGATTGAAGTCTCAAGTTGCCCGCCACAGTCTAAACTACATACAGGAAATTGGAAATGGC
TGGTTTGGAAAGGTTCTCTTGGGAGAGATTTACACGGGCACTAGCGTAGCAAGAGTCATCGTGAAGGAGTTAAAA
GCAAGTGCCAACCCAAAGGAACAAGATACTTTTTTGAAAAATGGAGAACCTTACTACATTCTTCAGCATCCAAAT
ATTCTTCAGTGTGTTGGACAGTGCGTAGAAGCGATTCCCTACCTCCTGGTGTTTGAGTTCTGTGACTTGGGTGAC
CTGAAGGCGTATCTGCGCAGCGAGCAGGAGCACATGCGGGGGGACTCACAGACCATGCTGCTGCAGAGGATGGCG
TGCGAGGTCGCCGCGGGGCTGGCCGCCATGCACAAGCTGCACTTCCTGCACAGTGATTTAGCCCTGCGGAATTGT
TTTCTCACCTCCGACTTAAATGTGAAAGTGGGAGATTACGGAATAGGATTCAGCAGGTACAAGGAGGATTATATT
GAAACAGATGATAAAAAAGTTTTCCCTCTGCGATGGACTGCTCCAGAATTAGTAACCAGCTTTCAAGACAGACTG
CTAACTGCAGATCAGACTAAGTATAGTAATATCTGGTCTCTGGGTGTGACACTTTGGGAGCTTTTTGACAATGCC
GCACAGCCGTATTCAAACCTTTCCAACTTAGATGTCCTCAACCAAGTCATTAGAGAGAGAGACACAAAACTCCCG
AAGCCCCAGCTGGAGCAGCCCTACTCTGATAGATGGTATGAAGTCTTACAGTTCTGTTGGCTGTCACCAGAAAAG
AGACCCGCGGCTGAAGATGTGCACAGGCTGCTGACTTACCTGCGGCTGCAGAGCCAGCGGGACTCAGAGGTCGAC
TTTGAACAGCAGTGGAACGCTCTGAAGCCGAACACAAACAGCAGAGACTCCTCCAACAATGCTGCATTCCCAATT
CTCGACCACTTTGCCAGGGACCGGCTGGGTCGTGAAATGGAGGAAGTCCTCACCGTGACCGAAACCAGCCAGGGC
CTGAGCTTCGAGTATGTCTGGGAGGCCGCTAAGCACGACCACTTTGACGAGCGCAGCCGGGGCCACCTGGACGAA
GGCTTGTCCTACACGAGCATCTTCTATCCGGTTGAAGTTTTTGAGAGTTCGCTTTCAGATCCTGGGCCCGGAAAG
CAAGATGACAGCGGCCAGGATGTCCCCCTGAGGGTCCCTGGAGTGGTTCCTGTTTTTGATGCCCACAACCTTTCT
GTTGGAAGCGACTATTATATCCAGTTAGAAGAAAAAAGTGGTAGTAACTTGGAGCTTGATTACCCACCAGCGCTG
CTCACAACCGACATGGATAATCCAGAAAGGACTGGCCCTGAACTGTCCCAGCTCACGGCGCTCAGGAGCGTTGAA
CTTGAGGAGTCCAGTACAGATGAGGACTTCTTCCAAAGCAGTACAGACCCCAAAGACTCTAGCTTACCAGGGGAC
TTACACGTGACCAGTGGCCCCGAGAGCCCTTTCAACAATATATTTAATGATGTGGACAAATCGGAAGATTTGCCC
AGTCACCAAAAAATATTCGACTTAATGGAATTAAACGGAGTTCAAGCCGACTTTAAACCTGCCACTTTAAGTTCC
AGTTTGGATAACCCCAAAGAGTCAGTCATAACAGGCCACTTTGAGAAAGAAAAGCCCCGTAAGATTTTTGACAGT
GAGCCTCTCTGCCTATCAGATAATCTTATGCACCAAGATAATTTTGATCCATTGAATGTTCAAGAATTGTCAGAA
AACTTTTTATTTCTTCAAGAGAAAAACTTACTAAAAGGCTCATTGTCCAGCAAAGAACACATAAATGATCTTCAG
ACAGAACTTAAGAATGCTGGTTTTACTGAAGCTATGTTAGAAACGTCATGTAGAAACTCTTTAGATACTGAGCTT
CAGTTTGCTGAAAATAAGCCAGGCTTGTCTTTGTTGCAGGAAAACGTAAGCACAAAGGGTGACGATACAGATGTC
ATGCTCACAGGTGACACTTTGAGCACCTCATTGCAGTCTTCCCCGGAAGTGCAGGTACCTCCTACCTCCTTCGAA
ACAGAAGAAACGCCCCGTCGGGTACCCCCAGACTCACTCCCAACACAGGGAGAAACCCAGCCCACGTGTTTAGAT
GTTATTGTCCCGGAGGACTGTCTCCACCAGGACATCAGTCCAGACGCTGTGACTGTCCCGGTTGAAATTCTCTCA
ACTGATGCCAGAACCCACAGCCTGGATAACAGGTCCCAGGACTCTCCTGGCGAGAGTGAGGAGACCCTGCGACTC
ACCGAAAGTGACTCTGTTCTTGCTGATGACATCCTTGCCAGCAGGGTGAGTGTAGGGAGTAGTCTCCCGGAACTG
GGACAGGAATTGCACAATAAACCATTTTCGGAAGACCATCACAGTCATCGCCGGCTAGAGAAAAACTTAGAGGCT
GTGGAGACTTTAAATCAGCTCAATTCTAAAGACGCAGCAAAAGAAGCAGGCTTGGTGTCTGCCCTCTCCTCGGAC
TCAACCAGTCAGGACAGCCTCCTGGAGGACAGCTTGTCAGCACCCTTCCCAGCCTCTGAGCCGTCCCTGGAAACC
CCGGACTCTCTGGAGTCAGTGGATGTCCACGAAGCGCTACTGGACTCTTTAGGATCTCACACTCCCCAGAAACTA
GTGCCCCCCGATAAGCCGGCAGACAGTGGCTACGAAACAGAGAACTTGGAGTCTCCCGAGTGGACCTTGCATCCC
GCTCCCGAGGGCACCGCAGACTCAGAACCAGCCACCACGGGCGATGGCGGCCACAGCGGTCTGCCTCCCAACCCG
GTCATTGTCATCTCAGATGCCGGCGATGGTCACAGAGGCACAGAAGTGACCCCTGAGACGTTCACAGCTGGCTCC
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FIGURE 1708B

CAGGGGTTCATACCGAGACTCTGCGTACTTCTCAGACAATGACTCTGAGCCCGAGAAAAGGTCTGAGGAGGTCCCG
GGAACCTCCCCATCCGCCTTGGTGTTGGTACAGGAGCAGCCCCTACCCGAGCCAGTCCTCCCCGAGCAAAGTCCT
GCTGCCCAGGATAGCTGCCTGGAAGCCAGAAAGAGCCAGCCAGATGAAAGTTGTCTGTCTGCTTTGCACAACTCC
AGTGACCTGGAATTAAGAGCCACGCCGGAGCCAGCACAGACTGGTGTTCCCCAGCAGGTGCATCCCACGGAAGAC
GAGGCCAGCAGTCCCTGGAGTGTGCTGAATGCAGAACTTAGCAGCGGCGATGACTTCGAGACACAGGACGATCGC
CCCTGCACCCTCGCTTCCACGGGGGACCAACACGAACGAACTCCTTGCCTACACCAATTCTGCGCTGGACAAGTCC
CTGTCCAGCCACTCCGAGGGCCCGAAGTTGAAGGAGCCGGACATCGAAGGGAAGTACCTGGGGAAACTCGGGGTG
TCAGGGATGCTCGACCTCTCAGAGGACGGGATGGATGCAGACGAGGAGGACGAAAACAGCGACGACTCGGACGAG
GACCTGCGGGCCTTCAACCTGCATAGCCTCAGCTCCGAGTCGGAGGACGAGACCGAGCACCCCGTGCCCATCATC
CTCAGCAACGAGGACGGAAGGCACCTGCGGAGTCTGTTGAAGCCCACAGCGGCCAATGCCCCCGACCCACTGCCC
GAGGACTGGAAGAAGGAAAAGAAGGCAGTCACGTTTTTCGATGATGTCACAGTCTACCTGTTTGACCAGGAGACC
CCAACCAAAGAGCTGGGGCCCTGTGGAGGAGAGGCGTGCGGCCCGGACCTGAGCGGCCCAGCCCCAGCCTCAGGC
TCTCCCTACCTGAGCAGGTGCATCAACTCCGAAAGCTCCACCGACGAAGAAGGTGGTGGCTTTGAGTGGGATGAT
GACTTCTCCCCAGATCCTTTTATGTCAAAGACAACAAGTAACCTGCTCAGCTCCAAGCCTTCTCTCCAAACATCC
AAGTACTTTTCTCCGCCGCCACCGGCCCGGAGCACGGAGCAGAGCTGGCCGCACTCGGCGCCTTACTCCCGGTTC
TCCATCTCTCCCGCCAACATTGCCAGCTTTTCCCTCACACACCTGACCGACTCGGACATCGAGCAGGGCGGAAGC
AGCGAAGACGGAGAAAAGGAC**TAG**GTGGCTGCCAACGCGCACGCTCGGGTCCGAGGCTGCTCCCCTGGAGCGGCG
CCCCTGCGCCCTCAGCCCGAGCAGCGACATCCACTCGCCATTTGCTGACATGAGATTGGGAGGAAGAATCCAGAG
GTGAAGAGGGAGACGGCTCTTAGCTGCGTTCAAGGCGGGGCCCTCGGGAGCCCAGGTGCAGAGCGAGGCCGTGTC
CAGGAGCCGGCGTCCCTCAGTGCCCCGTGCACCCGCGGCCGCGGCCTCCCAGGCAGTGCTCATGCGCTGGCCGTC
GGGGGAGGCAGGGGCACAGCCTCCATGTGCGCGCGCGTGTGGAGCTGTGTGCACCGCATGTGTGCTTTCCACAGG
GGCGTCTCTGCGTCCACGCCTGCACATCCCGGCGCACGTGTGGGCACCACAGAGGACACGTGAGGGGAATGGTCA
CCAGTGAGCCATATTTATTATTTCTAGAGAAATCACGAACTGCTTTCTGTAATTGCACTGTGGATAAATGTTCCG
AGAGTCTCCATTGTTGTACAGGATCTTCAGTTATTCGAGGGGAATGAGGCAGGTCAAGCCGATGCTAGCCACTAG
TTTGATTTTTTTTCTGTTTTATAGTTTGCGCTGCATGGTACTTGTGAAGCTTAAATATTTTGAGTGTTCTACTGT
GTCTAGGATTGTTGGGATTGTACATATGGTACTCTTTCATAAATGATAAATGATTCTGAATGTTAGTGTTTTATG
TTCATATAGGAAATATTTTCATTGAGTCCAAAATACCACTGTTTTGTTGATGGACTTGAATGCATTTTTGTCTCT
TCTTGATGAAGCGGCTTTGCCGCAGCAAATGAGGCTTCTCTCTGAGGAGCTGAGAGGTCTTGCAGCCTCTCCTTG
TCATTCTCCCACCCCACATCCCATTTTTTAAAGCCCTTTTGGTAAAAACCAACAGGTTGTGGCCGCAGACCTCAG
ATGGACCCGGCCCATCCCTGGGGACGTGCTGGCGTGGCAGGTCCAGAGAGCTGCACCCTGCACGGGGCACCGCAC
CGCTTCCCTCCGCGCAGCTCTTCTGCCTGGTTTTCGGAGGCCAGGCTGCTGGGAGGCTTCCGTGTTCCTGTCAGT
CCTTCCTTCAAGAAGCCGGGGAACTCAGGCAGACTCATCTCCGCAGAGCATACCAGCCGTGGGGGACCGTTCGAC
TTGATGATGTGTGCACACTTCAGGTGGTGGGGACTTGAGCTTTAAAAAAACCTCCACAGCCGAATCTTCTCCTCC
GAGCCACTCCACGTCACGTCCAGCTGGGCCTGGCCAGTCTGTGGTTATCCATGTGGGATGAGATAACACCACATC
CTGCAGCTGTGAAGGGGGATGGACAAGGGACGACGGCCGACGGCAGAGCATCAGCCGACACATAGTTCGGGT
CGGGGCCTTGGGTGGTCCTGCATGGCCCGGGACTCATCTCACGGACCCTCCGTTCTGCATTAAGCCCCAGGTTCT
CTTCTGGCTTTGAAAGGGCCCGAGTGCTCCCAGTGTAGCTTCGTCACATCGTCACGAGCCCCTGTGGTCATGGGC
GACCTCACACCTCCCTCCCTGAGTTCTGCTCTGACATAAGGAAGTCCTCGGTGGCTGGTGCAGCGCGGCTGTGCT
GTGCTGGGGAGGCAGCCGTTCCTTCGGGGGTCCTTGGGCCTGCAGTCCCCTCATACTCACCCTTCACCCAACATA
TTTTCCGGTGCTGATATGTTTCCAGACTCCAGCGCAACCTGGGGTGCTCTCCAGACCCGTGCAGGGGCCGCCTGG
GGTACACGGAAGGAAGTTGAGTCCTAGTGCAAAATGCAGGCGGACGTTGCCAGAGAGTGCGCAGCAAATGACCTT
CATTGCCAGTTCCACCCTACTCCTCTCATTTTTTATACTAAGCAATAACTTTCCAAAGCAAGAAGTTCAGGATGG
AGAGAGTCCCCTCCTGTGTAGGCATGGGGTGGACGCGGTGCCCACCTGGGCTATGTGGGAGCACCACTGTCTCG
GGATGCGCGAATTTTTTTTTTTTTTAATTAACAGGGCATTAGAAGATGATTTTGCCAAAATTGTCATGACTCTG
AATTCTTGCTGTGGGGACTTCCTGAGTTTTCTCAGTTTTTACATCTAAGATTAGTCTTGGCTGAAGAGAAATGAG
ACGTGATTATACTACTTTTTCAATTGCAGGTTTAAGGAGTTCAGATTTAATGACCAAAGTCATACAGATCATGGA
ATCTGTCGTCGTCTTATACAGTGTCAGCCTCGAGTACATTTATTAACCTTTTGGGGCTGTCAGTTTTCCACTAGG
ATTAAGATTTTGGCCGGGCGCGGTGGCTCACGCCTGCAATCCCAACACATTGGGGGGTCGAGGCGGACGGATCAC

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FIGURE 1708C

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TTTGAGCCCAGGAGTTCAAGACCAGCCTGGGCAACATGGCGAAACCTCGTCTCTACTAAAAATACAAAATATATA
TATATATATATACTAGCTGGGGCACATAGTGGTGTGCACCTGTAGTCCCAGCTGCTTGGGAGGCTGAGGTGGGAG
GATGGCTAGAGCCCAGGAGATGGGTGTTGCAGTGAGCTGAGACCATGCCACTGTACTCTAGCCTGGGTAACAGCC
AGACCCTGTCTCAAAAAAAAAAACAATTTTTTTCATAACATAATTCCCATTTTTATTTATTTTGAGTCACTCATAA
TTAATTGCCAAAAAAGCATTTTATACATTGAGTTGGGGGGTAGTGGATCTTAGTGTGGTGTTGCATGGAGGGGCG
AGATTTTATATTTATAATCAACACGTGGGTTAACATGTTTTTTTTGAAATCCAAGCAATACACAGGAAATTTAAGT
AGAATAAAAATTGCAGCCCATTTTTGAAATGTCAGCATGTGCTGTGTTCAGTTCAGGTTTTTGTTGTTTGTTTTG
TTATTTTTTAACTAATAAGTTGGTTATCAGTGGTGGGTTTTCAAAATGTACTTGTTCTAATAAGTTGTACAATGA
ACTAAATCAGTGGCATTCTCTAGATAATGTGGGGGAAGGTTAGAATATTTTCTGGCCTTCTATGGGGTAGCAACC
CAGAATCAATCTGAATTAGTCCTGTTTTGGTGGAGTTTGTACATTTTAAATCCTATAACAAAAATAATCTAGTTT
TCATTTCCTTACTAGCTAGATGCGAATTTGTCTTTTTGAATGACCCTGTCAATAAGCCAGAAAGGGCAACCCAGA
AAAAGTGCTCCCCACATCCTTCTGAGACTTGGCCTGTGTGTGTGGACGAGAAGCCATTCACCGTAAGGGTGCAGA
AAGCTCGACCAAGCCGAATTGCAAACAACGTTCGTTCTATTTTTAAATGTACAGGTTCGATCGTTTCTATAGAAA
TGGGTTTATCTAAGAAAGTCTTGGTTTGTCTTGCTGCTGTAAAAGGCCTTTCCAAACCCCTCCTTTTATTCCTG
TTTCCCGAAATAAGGTATTTGTAGAGTTAAGGACCTACTGCATGCCTGTCCCCAGGGCCCCGGTGGAAGGAAGGC
AGCGCCTGCTCTTCCTTGACTCAGCCCATCATCTGAAAATTCAGAAGTGAACCAAGGGTTAGACGCCAGAGGTTG
GGCTTCTGTTAGAGTGGCTTCAAAACATGAGCCTTATGGGAAGTAGCCTTAAAAAAAGAATGGGTATACGCAGTG
ACTTCCGATGGAAATCTCCAAAACAATATTCCTAAGTAGCAATGGGGTTGGCTCAAGTCTTTATTAACAAAGAAC
ATTCTCTTTCATCTATAAAGAAATTCTTAAAGATGCATTGACAGTGTTGAATTACCAACAGCCTGTGAAGATCAG
TTTGACCGGTGTGGACACGTGCTGGTTAAGCACTCAGGCCTACGTGGGCCGAGCGGGATCTTGATCATGGGGCTG
GTGTATGGATCCACCGTCGGATTCCGTCTGCAGAGGAGGACGTAGGGGGCCGTCACACCCACCAGGCCTCCCTGC
TGTGCTTTAACACAGGCAGAAGAGGTTCATGGCAATATAATAGTCAATGAACTTTCAGTTTAAATTGTGTACATT
TTTAAATTGTAAGATTTTTACTGTATATTGATGCATAGTGTGATTCAATAAATTGCTTGTAATTTAAAAACTATT
TAATATTCAAAATAAATATAGTTATATATTTATAAAAAAAAAAAAAAAAAACTCGAG
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FIGURE 1709

MPGPPALRRRLLLLLLLVLLIAGSAGAAPLPQTGAGEAPPAAEVSSSFVILCVCSLIILIVLIANCVSCCKDPEID
FKEFEDNFDDEIDFTPPAEDTPSVQSPAEVFTLSVPNISLPAPSQFQPSVEGLKSQVARHSLNYIQEIGNGWFGK
VLLGEIYTGTSVARVIVKELKASANPKEQDTFLKNGEPYYILQHPNILQCVGQCVEAIPYLLVFEFCDLGDLKAY
LRSEQEHMRGDSQTMLLQRMACEVAAGLAAMHKLHFLHSDLALRNCFLTSDLNVKVGDYGIGFSRYKEDYIETDD
KKVFPLRWTAPELVTSFQDRLLTADQTKYSNIWSLGVTLWELFDNAAQPYSNLSNLDVLNQVIRERDTKLPKPQL
EQPYSDRWYEVLQFCWLSPEKRPAAEDVHRLLTYLRLQSQRDSEVDFEQQWNALKPNTNSRDSSNNAAFPILDHF
ARDRLGREMEEVLTVTETSQGLSFEYVWEAAKHDHFDERSRGHLDEGLSYTSIFYPVEVFESSLSDPGPGKQDDS
GQDVPLRVPGVVPVFDAHNLSVGSDYYIQLEEKSGSNLELDYPPALLTTDMDNPERTGPELSQLTALRSVELEES
STDEDFFQSSTDPKDSSLPGDLHVTSGPESPFNNIFNDVDKSEDLPSHQKIFDLMELNGVQADFKPATLSSSLDN
PKESVITGHFEKEKPRKIFDSEPLCLSDNLMHQDNFDPLNVQELSENFLFLQEKNLLKGSLSSKEHINDLQTELK
NAGFTEAMLETSCRNSLDTELQFAENKPGLSLLQENVSTKGDDTDVMLTGDTLSTSLQSSPEVQVPPTSFETEET
PRRVPPDSLPTQGETQPTCLDVIVPEDCLHQDISPDAVTVPVEILSTDARTHSLDNRSQDSPGESEETLRLTESD
SVLADDILASRVSVGSSLPELGQELHNKPFSEDHHSHRRLEKNLEAVETLNQLNSKDAAKEAGLVSALSSDSTSQ
DSLLEDSLSAPFPASEPSLETPDSLESVDVHEALLDSLGSHTPQKLVPPDKPADSGYETENLESPEWTLHPAPEG
TADSEPATTGDGGHSGLPPNPVIVISDAGDGHRGTEVTPETFTAGSQGSYRDSAYFSDNDSEPEKRSEEVPGTSP
SALVLVQEQPLPEPVLPEQSPAAQDSCLEARKSQPDESCLSALHNSSDLELRATPEPAQTGVPQQVHPTEDEASS
PWSVLNAELSSGDDFETQDDRPCTLASTGTNTNELLAYTNSALDKSLSSHSEGPKLKEPDIEGKYLGKLGVSGML
DLSEDGMDADEEDENSDDSDEDLRAFNLHSLSSESEDETEHPVPIILSNEDGRHLRSLLKPTAANAPDPLPEDWK
KEKKAVTFFDDVTVYLFDQETPTKELGPCGGEACGPDLSGPAPASGSPYLSRCINSESSTDEEGGGFEWDDDFSP
DPFMSKTTSNLLSSKPSLQTSKYFSPPPPARSTEQSWPHSAPYSRFSISPANIASFSLTHLTDSDIEQGGSSEDG
EKD

FIGURE 1710

CCCACCCGCGACGCCGACGCAAGGCTGCTGCT**ATG**GGGCCGGGCGGCCGTGTGGCGCGGCTGCTCGCCCCACTAA
TGTGGCGCAGGGCGGTTTCCTCGGTGGCGGGGTCCGCGGTTGGAGCCGAGCCCGGGCTTCGGCTGCTGGCCGTGC
AGCGGCTTCCCGTAGGAGCAGCGTTCTGCCGGGCTTGCCAGACCCCAAACTTTGTCCGCGGCCTGCACAGCGAGC
CTGGGCTGGAGGAGCGGGCGGAGGGGACGGTCAACGAGGGACGCCCAGAATCGGACGCGGCAGATCATACTGGTC
CCAAGTTTGACATCGATATGATGGTTTCACTTCTGAGGCAAGAAAATGCAAGAGACATTTGTGTGATCCAGGTTC
CTCCAGAAATGAGATATACAGATTACTTTGTGATTGTTAGTGGAACTTCTACCCGACACTTACATGCCATGGCCT
TCTACGTTGTGAAAATGTACAAACACCTGAAATGTAAACGTGACCCTCATGTTAAGATAGAAGGGAAGGACACTG
ATGACTGGCTGTGCGTGGATTTTGGCAGCATGGTGATTCATTTGATGCTTCCAGAAACCAGAGAAATCTATGAAT
TAGAGAAATTATGGACCCTACGTTCTTATGATGACCAGTTAGCTCAGATAGCACCTGAGACAGTACCTGAAGACT
TCATTCTTGGAATAGAAGATGATACTTCATCTGTGACTCCAGTGGAGTTAAAATGTGAA**TAA**AATATTTTATGCA
CTGCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1711

MGPGGRVARLLAPLMWRRAVSSVAGSAVGAEPGLRLLAVQRLPVGAAFCRACQTPNFVRGLHSEPGLEERAEGTV
NEGRPESDAADHTGPKFDIDMMVSLLRQENARDICVIQVPPEMRYTDYFVIVSGTSTRHLHAMAFYVVKMYKHLK
CKRDPHVKIEGKDTDDWLCVDFGSMVIHLMLPETREIYELEKLWTLRSYDDQLAQIAPETVPEDFILGIEDDTSS
VTPVELKCE

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FIGURE 1712

GGGCCGCGACTGTGGTCGTTTTTATACCTTCCCGCGCGGACGCCGGCGCTGCCAACGGAAGGGCGGGTAGGGCGA
GACGGAGTTTCGTCATGTTGGCCAGGCCCATTTGAGATCTTTGAAGATATCCTCAACGTGAGGCTCTGCTGCC**AT**
GAAGGTGAAGATTAAGTGCTGGAACGGCGTGGCCACTTGGCTCTGGGTGGCCAACGATGAGAACTGTGGCATCTG
CAGGATGGCATTTAACGGATGCTGCCCTGACTGCAAGGTGCCCGGCGACGACTGCCCGCTGGTGTGGGGCCAGTG
CTCCCACTGCTTCCACATGCATTGCATCCTCAAGTGGCTGCACGCACAGCAGGTGCAGCAGCACTGCCCCATGTG
CCGCCAGGAATGGAAGTTCAAGGAGTGAGGCCCGACCTGGCTCTCGCTGGAGGGGCATCCTGAGACTCCTTCCTC
ATGCTGGCGCCGATGGCTGCTGGGGACAGCGCCCCTGAGCTGCAACAAGGTGGAAACAAGGGCTGGAGCTGCGTT
TGTTTTGCCATCACTATGT**TGA**CACTTTTATCCAATAAGTGAAAACTCATTAAACTACTCAAATCTTAAAAAAAA
AAAAAAAAA

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FIGURE 1713

MKVKIKCWNGVATWLWVANDENCGICRMAFNGCCPDCKVPGDDCPLVWGQCSHCFHMHCILKWLHAPAGAAALPH
VPPGMEVQGVRPTWLSLEGHPETPSSCWRRWLLGTAPLSCNKVETRAGAAFVLPSLC

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FIGURE 1714

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GTTTACATCCGCCGGGTGCGCGGTTCGCCGCCCGAGGTCGTTCGGCTCGGGTACCATCCTCCGCGCCATGGACAC
CAGCGACCTGTTCGCCAGCTGCAGGAAGGGGGATGTGGGCCGAGTGCGACCATGAACCCGTCCTGACCCAGGCTC
TGACCTCCTTCCTGCCCAGGTACCTGCTGGAGCAGCGAGACGTGGAGGTACTATGCCTGCTTGTGTGGGCACGAG
GAGCTGGTACTCTACCTTCTGGCCAATGGAGCCCGCTGCGAGGCCAACACCTTCGATGGTGAGCGCTGCCTCTAT
GGGGCACTGAGTGACCCCATCCGCCGGGCTCTACGCGATTACAAGCAGGTCACGGCTTCCTGCAGGAGGCGGGAT
TACTATGACGACTTCTTGCAGCGGCTTCTAGAGCAGGGCATCCACAGTGACGTGGTCTTTGTAGTACACGGGAAG
CCATTCCGGGTGCATCGCTGCGTCCTGGGTGCACGTAGTGCCTACTTTGCCAACATGCTGGACACCAAATGGAAG
GGCAAGAGTGTCGTGGTTCTCAGGCACCCACTGATCAACCCCGTGGCCTTTGGGGCCCTGCTGCAGTACCTGTAC
ACAGGCCGCCTGGACATTGGCGTAGAGCATGTGAGTGACTGTGAGCGCCTGGCCAAGCAATGCCAGCTGTGGGAC
CTGCTCAGCGACCTGGAGGCCAAGTGCGAGAAGGTGTCTGAGTTTGTGGCGTCTAAGCCAGGCACGTGTGTGAAG
GTGCTGACCATCGAGCCCCCACCTGCAGACCCCCGCCTCCGGGAGGACATGGCGCTGCTGGCCGATTGTGCCCTG
CCCCCCGAGCTCCGAGGTGATCTTTGGGAGCTGCCCTTCCCTTGTCCTGACGGCTTCAACAGCTGCCCTGACATC
TGCTTCCGAGTGGCTGGCTGCAGCTTCCTCTGCCACAAGGCCTTTTTCTGTGGCCGCAGTGACTACTTCCGAGCC
CTGCTGGATGACCACTTCCGAGAGAGCGAGGAGCCAGCGACCTCAGGGGGGCCCCCCAGCCGTCACCCTGCATGGC
ATCTCACCCGACGTCTTCACTCACGTGCTCTACTACATGTACAGCGACCACACTGAGCTGTCCCCCGAGGCAGCC
TATGATGTGCTGAGCGTCGCCGACATGTACCTGCTGCCAGGCCTGAAGAGGCTGTGCGGCCGCAGCCTGGCTCAG
ATGCTAGACGAGGACACTGTGGTGGGTGTGTGGCGCGTGGCCAAGCTCTTCCGCCTGGCGCGGCTTGAGGACCAG
TGCACTGAGTACATGGCCAAGGTCATTGAGAAGCTGGTGGAGCGGGAGGACTTCGTGGAGGCGGTGAAGGAGGAG
GCAGCGGCTGTGGCAGCCCGGCAGGAGACGGACTCTATCCCGCTGGTGGACGACATCCGCTTCCACGTGGCCAGC
ACGGTGCAGACCTACAGCGCCATAGAGGAGGCGCAGCAGCGTCTGCGGGCACTCGAGGACCTGCTCGTGTCCATC
GGTCTGGACTGTTGAGCCCCTGGCTGGGCAGCCCCAGGGGCCAGGAGCTCTCTTGGAGACAAGCATGTGTATGCG
TTTGTGTGCAGCTCTTCTTCCTGCTCCCTGCACATTGAGGGCTTCATGGGGGGTGCGAGGGGCTCAGTGGGGCTT
CTCTTCCCTCCATGAGCCTGGAGACCCCAGGGGAGGATCCATTTGGGATGAGCCCCCTCCCCCCAATGCACAAGC
CAGCCCCCAAGACCCTGGGGGTGGACACCACTCAGGGAAACCTGGGGTGGGGGTGGGCTTTGGTCTTAGCACTTT
CCTTCTCCAGATCCCCCCTACCCACCCCAGTCCCAAATCCAGTCCTCTGGCCCTTGCCTAGCCCTGAATTGCTTC
TCTAAGCTGGTGTTCCCATGCACAGGGCCATTCAGGAAGGGCTGGGGGAGTGTGTGTGGCAATAAAGCTTGAAGG
CACCGTGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1715

MLDTKWKGKSVVVLRHPLINPVAFGALLQYLYTGRLDIGVEHVSDCERLAKQCQLWDLLSDLEAKCEKVSEFVAS
KPGTCVKVLTIEPPPADPRLREDMALLADCALPPELRGDLWELPFPCPDGFNSCPDICFRVAGCSFLCHKAFFCG
RSDYFRALLDDHFRESEEPATSGGPPAVTLHGISPDVFTHVLYYMYSDHTELSPEAAYDVLSVADMYLLPGLKRL
CGRSLAQMLDEDTVVGVWRVAKLFRLARLEDQCTEYMAKVIEKLVEREDFVEAVKEEAAAVAARQETDSIPLVDD
IRFHVASTVQTYSAIEEAQQRLRALEDLLVSIGLDC

FIGURE 1716

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AATTTTTAGCAAAACATCCTGTTTTTACTTAAAATTCTTCTCATATTTATTATAGTTAGAAGGTAAAGATCAAGA
TGACCTGCCGTTTGACTGCTTTTACATCAAACTCTGCCCAGTATTTGCAGCACAACTCAGGGGAAGGGCCTTAGC
TTACAGGTACTCCCAGCCTTCATCTGCCCCTGCAGAGCAGTGGCTGTCAGCCGGATGCGGCACTTTTCTGTATTT
TCATCCACACAGCTGCCCAGCCAGAGTTCGCAACACTGGATATTTACACCAAATAATTGTGGTTGACTTGTCTGA
AGCCAGCTGACAAAAGGATCAGCTTTTCCCACTTGTATTTTTTAAAAAGAGGGATTGTGATCATTGTCACAGAGT
GGGTGCTGGCCTCTCATATATATGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCATATACATAATTTT
TACTGCTGTCTCTAGTTTTAAGTCCCAACAATAGGAAGGCCGATCAGCTATATTGATATATTTAAGGCTGTACTT
AACTAATTTGGGCTGAGGATGAATATATCAGCCACAGCACATTAAAGAATGAGCCAAGGATTTGTCATGGTTGGT
CACTTTTTAAAGTATTTGATTACTGCAACTGGAGAATGAAAAGTGTATATTGGTGACGCCAACCTCAGTTTCTGA
GCACTCCTGCTCTGTGGTGAGAATCAGACAAAAATTCATCGGGGTGAAAAAAAAAAGGCATTACCTGATTCACAC
CCTTGTCTTGCTAGCCCTCTTCCATTCATTTCTCACACAGCACTTTGCTCTGTTAAATCCTCTGTCTCAGACCAT
TGCTTGCCCCTTCAAAGGGTATGGTTCAGGCTCCTTTCAAGACATTTGGAGTTTCTCTCTGGGGAAAGAGAGCCC
CCTACTGGTTTGGCTTCAGTCTAGGTCCACCATCCCTCTCGATCTGGCATCTTGGAGATTAATTTAAAAGGCAAG
CTCACCACAATGTAAGCCTATGGTCTGGCCAACCTTGCTTTTGGGAACTGTGACACCAAAGCCCCCAGGACTATC
TGCCTCTCCAGGAGCCAGATAGAATGACATGCCTTTTTCCTAATTGTCCACATTCCACCCCCAACCCACTGCCAC
TGTGGGCCAAGCCATCCATCTTGCAATCTTCATCTAAAACAGCTCTCATTTCATGCCAGTTTTGCTCAAACCTGC
ACCGTCACAAGATATTCAGAAGATGAAAACGTAGAAGACACCCCTGAATTAAAAACACTTACATAGCAGTGGCTG
GAATTACTCCAAAACGTGCCCAGTGATCGCACTGTAACATGGGATTTTCTCACCCAAATAGGCAACTCATGCTTC
CTGAGTGTAATCAAAGCATGTGGTGTTTTGGGGCCATATGCACCAGGTTTCTATTTTAGAAACCTTCAGCTGTCT
TGCTTATGTACCGTATGTAAATTTATTCTTTTTAAAAATCACTTTTATTTGATTTTGACTTATTAAATGCTTTAA
AAGCCAGAAAAAAAAAAGTGATTTT
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FIGURE 1717

IFSKTSCFYLKFFSYLL

FIGURE 1718

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TGCGGCCGCTGCCTTGGACCCAGCGCCACCCGCACACGGCGCTCCGCTAGCCAGGCCGGGAGCAAGAGCCAGGCG
GTGGAGAAGCCGCCGTCGGAGAAGCCGCGGCTGAGGCGCTCGTCGCGCCGGGCCCCAGGAGGAGGGCCGGGGGAG
CCGCCGCCGCCTGAGCTGGCGTTGCTCCCGCCACCGCCGCCGCCGCCGCCGACTCCCGCGACCCCGACGTCCTCG
GCGTCCAACCTGGACCTGGGCGAGCAGCGGGACGCCTGGGAGACGTTCCAGAAGCGGCAGAAGCTTACCTCCGAG
GGTGCCGCCAAGCTCCTGCTAGACACCTTTGAATACCAGGGCCTGGTGAAGCACACAGGAGGCTGCCACTGTGGA
GCAGTTCGTTTTGAAGTTTGGGCCTCAGCAGACTTGCATATATTTGACTGCAATTGCAGCATTTGCAAGAAGAAG
CAGAATAGACACTTCATTGTTCCAGCTTCTCGCTTCAAGCTCCTGAAGGGAGCTGAGCACATAACGACTTACACG
TTCAATACTCACAAAGCCCAGCATACCTTCTGTAAGAGATGTGGCGTTCAGAGCTTCTATACTCCACGATCAAAC
CCCGGAGGCTTCGGAATTGCCCCCCACTGCCTGGATGAGGGCACTGTGCGGAGTATGGTCACTGAGGAATTCAAT
GGCAGCGATTGGGAGAAGGCCATGAAAGAGCACAAGACCATCAAGAACATGTCTAAAGAGTGAGCTTCTGCCTCT
CCTGCCCTGAAAAGGAGGAATGATTGGGGCCAGCAACTTTGCTCTCCCTGCCGTGCCTCGGTGGTGCTCCTGAAT
GTGGCTGACCTGGGCTGCTGGTTCCGTTGACTAGGGTCATCTTGATCTCTGCAGTTTGCTCCAGCTACCAGTTTC
TTTAGGCAGCTCTTTGTCCTCCCTCTGCCCAGATTTTGATGTAGTCTAATTGACATCCTTCTCTTCCCAACTTTT
GTGTGATCCAGCAGAGCATGTGAGACTCTTTGATATGCACCTTCATGTATTATCTTGTTCAGTTCTCTGAGGTTG
GGATCATTATTATTTCCCATTTTGCAGATGAGAGAATTGAGGCAGAGAAAGGTTCAGCACCTTGCCTTTGGTTAC
ACAGCTGGTCATTCTGGCTTCAATCGCAGGACTACCAGCCTGTGCTCTTCACCACTTAGCTTCCCTGACTCAGGC
CACTTCCCTGGAGCGTTAGCTGGATTCTGAGAGTAGTTTCCAAGCCAGAGCTTTCAGAGAGCTTTTGTTCGTAGG
ACAATTTTAAGACATCAGGTTCTTGAATGTTTTGTGTTTTTTTAAGTCTCAGATTTATCTTCCTACTTCCTACTT
CTCCAAAAAGACTGAGAGCTGACATATTTGATTGTAAGCTCTTTGAGGCAGAGTTCTTGTAATCGTCTCTGTATA
AAACAGTGCCCACCCCAGTGACCTGTACTTGGATGCTTCAATCAGAGCTGTCCTGTTAAATAGAGCAAGTTTTTC
CTAGACCCACATTCT
```

FIGURE 1719

CGRCLGPSATRTRRSASQAGSKSQAVEKPPSEKPRLRRSSRRAPGGGPGEPPPPELALLPPPPPPPPTPATPTSS
ASNLDLGEQRDAWETFQKRQKLTSEGAAKLLLDTFEYQGLVKHTGGCHCGAVRFEVWASADLHIFDCNCSICKKK
QNRHFIVPASRFKLLKGAEHITTYTFNTHKAQHTFCKRCGVQSFYTPRSNPGGFGIAPHCLDEGTVRSMVTEEFN
GSDWEKAMKEHKTIKNMSKE

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FIGURE 1720A

CCCGGGCGAGCCCGCCGTGCGCACAGCTCTGCCCGCCGCCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCGGGTTCTAGCAAAGCCCCCCGGGGTGCCCATCAGTTTCCTTGGGTGACTACAGCGTGTGTTTTTTCTTTCCT
CTTTCCCCTGCCTGTGTGCCCTTCTCCAGG**ATG**GCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
TCCAAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATACCCGCTGGAACTGCCGAAGAGGAGGAAGCC
AGGAGGCGGCAGTCTGAAGAGGATGAGTTCAGAGTCAAGCAACTTGAAGATAACATTCAGAGGCTGGAGCAAGAA
ATACAAACGCTAGAAAGTGAAGAGTCCCAGATATCTGCCAAAGAGCAAATCATCCTAGAGAAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTCAGAAGGGTTTCTCCAGTACGGATGGAGATGCAGTAAATTACATTTCCTCCCAG
CTTCCCGACCTGCCAATCCTCTGTTCACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GGAGTCGGGTGGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCCAGAC
ATGACTATCAAGAAGCCTCCCCAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACTATAGTGCC
ACCCTCCTGGAGCCTGCTGCCAGCTCTCTTTCCCCAGATCACAAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
TGTAAAAGTGTTCCTGGAATCACCTCTACCCCACATCCCATGGACCATCCCTCCGCTTTCTATTCACCCCCGCAT
AATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCCTAAGCCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCACTGAAAGAACAGCTAGCCGG
CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAAATGGCCAT
TCCCCCAGCCAGCCTAGAGATGCGCTGGGGGACAGCCTGCAGGTGCCTGTCAGCCCCAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCGAGATGGAGAGTTCACTCTCACCACACTGAAAAAGGAGGCCAAGTTTGAGCTGCGTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAGAACAATACTGCATTAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAAAGGAGAGGAGAGAGCTCATCCGCAGCCAGGCCGTCAAGAAGAAT
CCTGGCATTGCAGCAAAATGGTGGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCCATCGCAGCTCTGCACAGCCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTCACAGAGCAGATAGATTTCTCTGCTGCTCGCAAACAATTTCAGCTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTCAGTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTCGGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGGCTGTCCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTCGGTGAGGTCTCAGGAT
ACCACAGTCCTGGAGACCCTATCCAATGATTTCAGCATGGACAACATCAGTGACAGCGGGGCATCCAATGAGACA
ACCAATGCCCTCCAGGAAAATTCACTGGCTGATTTTTCTCTGCCCCAGACACCACAAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTCTATTCCCCTTCCTCCACGCTGGGGGACTCT
CCGTTGGTTGATGACCCCTTGGAGTATCAGGCTGGCCTCCTGGTGCAGAATGCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACCAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTCGGCTCAGAAAAGCCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCCTGTTCAA
GAGAAAAGGGATGTATTACCAAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCCAGCCA
CTGCCAGCTGTGCAGCCCAGTGGCCCGATTAACATGGAGGAGACCAGGCCCGAAGGAAGCTATTTCAGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCTTTC
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAG
GAGCTGAAGAGGCAGAGACAAGTCTTGCAGAGTACGCAGAGCCCCAGGACAAAGAATGCCCCATCACTGCCCTCC
AGAACATGCTACAAAACTGCTCCAGGGAAAATAGAGAAAGTCAAACCTCCTCCATCCCCCACCACTGAAGGCCCC
AGCCTGCAGCCTGACTTAGCCCCTGAAGAGGCTGCCGGAACCCAGCGGCCCAAGAATCTGATGCAGACCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGCGAGAGAATGGATGATAGTAGTTACACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCCTCGAGGCCACACGGGTTAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACCAGGAGGAAGAAGACAACGAA**TAA**ACTTCCTTCAACCCAGGAAGCGTCTTTGGTGCT
TGGGAGACCAAGAAACCAAGAAATTAACAACTGAAAGCATTTTAATGGACTATTTATTAAAGTGCAAACAAACTC

FIGURE 1720B

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AGCAATCCTTATGTAGACCAGAAGCTGCAATATACAATGATGAAAATGAAACGAAAAGGAAGTCCCCCCATCAGA
CTCTGGACACCCAGGAATCAAAAGAGAAAGGACTTTTTTGGTGACTCAATCCCAGTGTCTGGTTTGGGGCCAATC
TACAATGGATCCAAAAGGACAAAACATGTTACAAGCAAATCAACATAGTTGCTGCAGGCGGAACTGAGACCAGCC
TCTCTGGGCGATGAAGGACAATGGTGGTAGGGCCACTTAGAGAGCAGTAGGGCCCAGGCTGGTGCAGCCTACATG
GCACAGGATATTTCCCTGCACCAGTTTCCCACCTGTCACTTGCAGCATCAGAGGGTGTTGCATTAACTCCATTTT
CTCCAGCAGCCATAAAATGAATGGCGTTTCTCTCCATATTTGCCCAGAAGAGGCAGTTATGATTCCACTTCTCCT
ACATTTAATTATTTTTAATTGAGAACAACTCATGATCACAATTCATAAAATCCATATTTTAAGACAATAGTTCTT
CATGTCACAAACACAATCTATTCTACATGAGGAGGCTGAGAAAGGGGAAGAGAAAAACAAACCAAATGGATGATG
TTAGCTTTAGGATCGTGTCTGCTTATAATATTCACTGATCTGCAGTTATGAGAACACATTTTCACAGTTATGTT
TCTTCATAGGAAAACTATATTTAGTGGGCAACAACTATTTTTATGATGGGATGGGGGAGTATATACACGTATAGA
ATCTGTACGCGTTGAACAACTTGGTTCAAGATGGTGGGGGCATTTTTAGAGCGGCAATAATTGAAAAAAAAGGCG
AACTCTGCCTTGGAGAGGTAGATGATAAGAAATAAAAAGGTGTTTATAACTATTTTGTATTATAAAGTGGGCCTT
AGAGATAGGAAGAAGAATGATGGATTCCTTTTGGATCAATCAGAAAGGAAACACGAAAGAAAAGTCAGGAAGGTA
GAGAGAGAAAAAGGGAGGGAAGGAGAAAGAATGGGAATAAAATAAGGAGGTAAGAGATACTATTTTTGCTGAGCA
ACCAGTGTGTTTCAGGATGATACAAAGAAAAATATAGAATAGAAATAAGTGCAGGCTTGGAATCAGCTACAAATC
CTAAAGATGGGGTGTGTGTGGATGTGTGTGTGTGTGTGTGTACACCATTGTGTGTTTGTAAAATGTGTATGTTCA
TGAGTAAGGGTGTGTGTGTGTGTGTATTAAAATTCCAGAGTGACCGTGGCACTTGGGTGTACAGGTAATTCCTCC
AGAGCTGTTTGCTGGCTTCAGGAGTGGAGTGAGAATTTCTTTTTTATGAAAAGGGATATAAAGGCACCGAGCTGA
TGCAGTATTTGTAATATTAAGTTGACCTAACAAGGTATTTGCATGAGTCACAATTACAAAGTTTTGAGCGGTTTT
GTAATTTGACATTTAGGAAAGTCTCCTATTTATTCTCATACTTTACATTCATGCTTAGTATACTATAGAGGATGC
CAGCTTTAATCTTTCTGTCATTTAAAGCCATATGATAAGGGTATTCAATAATTGGGTGCCCTAAATTTCTGGATG
AGAAAATTTTCAATTCTGGCCATGAGAAAGAAAAAAAAATAAACAGCCTTCTTTTTTTTTCCTTTGTTTTAAAAC
TGTGGTTTTTTAAAAAAGCAATAATTAACTCAGACCTCACTAAAAATCATTTTTGTTTTTATATTGTTATGTCAT
AAGCTCTATTATGTTATTCTAACAAGTAGCAATTTCACAAAATTTGTATGTAGATGTTAACGCACATTTCCTTTG
CTTCTTTTATTAGACTAGTGTTGACTTTGGGGGGGGGACATTTATTCACAAATGAGAAGTAGGCACAAAGTAAAAA
ATGGAACCATCTACTAACAAGGATCCTTTAAAAACTGCCAAGGGAGCTCTAACTTGAAGCCACATCCTACAGATGG
CAGCCCAAATAGCACATGGGCAATTGGCACCATCTTTATATGGTTGAGTCTCCTGAATATTTTGAATGAATTCTC
AACAAAATGTGCTAGCCACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAAGAAATTCATTTTATAGTGAGGG
AGGTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGATCCGTGTTAGATTAGAAGTCCTGATGTGAAATGGGAG
GACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTAGCCAGAGGTCCCAGATGCCTGGGCTGAGAACCCAGC
GATAAGGGGGCGTTCCCAAAGCAGACACAGGGATAAGAACAGAGGAGGCAGCAGCATTGCACAGCCCCAGGCACA
GTGGCAGTTAGGATGGCTGGAGAGTAGGATAGTTCTATGGGTTGCCCAAAAAATGTGATGCGCTTCATGTTTTCT
CTGACTCATGGATCTGGTAGAGACCATAGACATGATATAGACTAACTTCCCCATTTTTCACAATGAAGGTAAACC
ATCCTTATGACTTACCTTAAAGTTTTTGTTCTGTTTTGAAGGAAACCATGTGCTTCATGAAACCTACAGTTGAC
AAGAGAATGTACAGCTAAGAGAAAAGCTTAAGAGGCCACACTATTCGCGGAATGGCTTTAGAGGCAGATGAAGTG
GTCTTTGACCACAGTTGATTGAACCAGAGCACTTATTGCTTAAAGAATAACAGAGTTCTAGAGCTGGGGGTTCTT
GGGCCATGCTCCGTGTGTGGATAAGGAAAGAAATACTGTTTCTGGGACTCTCCCACAGTCACAAAGCTGTTTTCA
CTGTGGCCCCTACATCTCTTAACTTTTGCTATTACTCCTATGCTGCCTTCCGGATTACTGCTGTCTATCTTCTTG
CTCCACTCACTGAAGATCCTATTATAATCCCATGAAAATGTAAATTACAGTTTACTTGGGAGAGCCAGATTTTCT
CTGTGCTCTTGAGTTTTTTATTCATTCAAGAAACCTTGGGCCACCGCTTTGTACATAGCACCGTGCTAGGCTCTG
GGATCCCAAATGGACCCTTTTAACTTTCTGAAGATGGGACCGTCCCCTGGAGGAAAGTCATTCCTGCCTAATCCA
TCGAGAGAAAGAGGCTTACGAAAAACTTTGCCTCTGATGCTCAGCCCCACCCCCAAATAGCACACAAGCTTGTTA
ACCCCACCTCTTACAAAATGTTTAGATTCTGTAGGTGTTAAAAGCCTTTCTGGAAGTATTGCATTCTGCCGTGTT
TATAGGTGTTCACTTTCCTCCAGAGCTGATTAACTACTGACATGACTTGGCTTTCTCATCCAGAAATTATGGAAA
CAGGGTCTGTCAGTGGCAGGAGGCCGTGCTGTGTTTTACTTGGATGACACAATGCAGTTTACTTGCCTCTTCATA
CCCATGCATGCTGCTCACCCTAGACAATGACATATAAGCCGTATATAGATCAATGTCCACATATATATACACACA
CACATATATATATAAAGTGTAACAAGGAACACTAAAACAGTGTTGATTCTTGTCTCTGAAGACAAATAATTAA
ACCTTTTTTTTCCCAACTAAAGAATGGATTTAATTAAACTATGTATTGAAAAAAAAGTAGCCTAAGTGTTAGAGA
```

FIGURE 1720C

TGGTGAATATATTCCATTTTAGTTAAAGAACAAATTTCCTGAATTTTAAGCATTCAGTGAGCTGCCAATTTTGAT
TTTGTGTTGCTCTTTACCCAAATTATTTTTTCTTTGTTTTTCTTTTTTTGGGGGAGGAGGGGAAAAAAGCAGCAA
TACTGTGTTTGGAAATTATACTCTGTATCTGGTTTTCCTGTGTATGTTAACCACTTAAATGTTATTATCCTGCTT
TGGTTTTAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTTCTCATTAAAATCCAATGTGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAAAAA

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FIGURE 1721

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MAEAELHKERLQAIAEKRKRQTEIEGKRQQLDEQILLLQHSKSKVLREKWLLQGIPAGTAEEEEARRRQSEEDEF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLKETEKSFKDFQKGFSSTDGDAVNYISSQLPDLPILCSR
TAEPSPGQDGTSRAAGVGWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNYSATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSSPDPMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSTTSSRCSSRDGEFTLTTLKKEAKFELRAFHEDKKPSKLFEDDEHEKEQYCIRKVRPSEEMLELE
KERRELIRSQAVKKNPGIAAKWWNPPQEKTIEEQLDEEHLESHKKYKERKERRAQQEQLLLQKQLQQQQQQPPSQ
LCTAPASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENSRQAVAKGQSTPRLFSIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASAAKGQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQDTTVLETLSNDFSMDNISDSGASNETTNALQENSLA
DFSLPQTPQTDNPSEGRGEGVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPEATVEEAEAAAFGSEKPQSMFEPPQVSSPVQEKRDVLPKILPAEDRALRERGPPQPLPAVQPSGPI
NMEETRPEGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLRSRKQRTLSMIEEEIRAAQEREEELKRQRQVLQ
STQSPRTKNAPSLPSRTCYKTAPGKIEKVKPPPSPTTEGPSLQPDLAPEEAAGTQRPKNLMQTLMEDYETHKSKR
RERMDDSSYTSKLLSCKVTSEVLEATRVNRRKSALALRWEAGIYANQEEEDNE
```

FIGURE 1722

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GCTCTCGGGCCGCCCCTCTTCGCCGTCTCCACGCCTCCGCGGGCAGTTACCAGCTTTGGCTGCTCGCGCCTCCCC
AACTCGGGTAAAGCTCCTCGGCCTCGGCGTGCTGCGCCTCCGCGGCTGCCCTGCGCCAGAATTCGGTTCCCTCAA
AATTATAAAAGCAGGAAAGCTCAAGACAAAGAAATCCAACAAGGCTAGTGATTTCAGTGATATGGAGAATTGGCC
AACACCAAGTGAATTAGTGAACACTGGATTTCAGAGCGTCCTCAGCCAAGGAAATAAAAAGCCACAAAATAGAAA
AGAAAAAGAAGAGAAGGTTGAAAAGAGAAGTAACAGTGACAGCAAAGAAAACCGGGAAACAAAATTAAATGGTCC
TGGTGAAAACGTCAGTGAGGATGAGGCTCAGTCAAGTAATCAACGTAAGAGAGCTAATAAGCACAAGTGGGTACC
ACTCCACTTAGATGTTGTAAGATCAGAGAGTCAAGAAAGACCTGGATCCCGGAACAGCTCAAGATGTCAACCTGA
AGCAAATAAACCAACACATAACAATAGGAGAAATGATACACGAAGTTGGAAGCGAGATAGAGAAAAAAGAGATGA
TCAAGATGACGTTTCCAGTGTGAGAAGTGAGGGTGGTAATATCCGAGGTTCCTTTAGAGGTCGAGGAAGAGGCCG
AGGACGGGGAAGAGGACGAGGCAGAGGAAATCCTCGATTGAACTTTGATTATTCATATGGTTATCAAGAACATGG
TGAAAGGACTGATCAACCATTTCAAACAGAACTTAATACCAGTATGATGTATTACTATGATGATGGTACAGGTGT
ACAGGTGTATCCTGTGGAAGAAGCGTTGCTTAAAGAGTATATTAAGCGTCAAATTGAATATTACTTCAGTGTAGA
AAATTTGGAACGAGACTTCTTTCTTCGGGGAAAGATGGATGAACAAGGTTTCTTGCCTATTTCCCTGATTGCTGG
TTTTCAGCGTGTTCAGGCTCTCACTACAAACCTTAATCTCATCTTAGAGGCACTGAAGGATAGCACAGAAGTAGA
AATTGTGGATGAGAAAATGAGAAAAAAGATAGAACCAGAAAAATGGCCAATTCCAGGCCCTCCTCCACGCAGTGT
GCCACCAACAGACTTCTCTCAACTGATTGATTGTCCAGAGTTTGTACCAGGCCAAGCCTTTTGCTCACATACAGT
CAGGGTGATGATCTTC**TGA**AGCTCTTGGATGTCATTTGATCGGAATATGCAGTGGAATAGGTGACTCACTGAAAT
GCCTTTATAAATACTGGAACAAATCCTGCTGCAAAAATGAAAGCGATCAGACTGTCTTCTGTTCAAGAATGTCTA
TTCCCACCTCTTGGTGGAGGAAGTTGGGCCAACACTGCAGTGGAGATAACCACCTTTGCGATAATGAGAGACAGA
CCAGAGGACTGCTACTCTTTTTATAGGAGCTGCCTATTTCTGTGTAATTGGCCTGGGCTGCATGGGCTGCTTTTA
TTCATGGTGGGAAAGTTAATTATTATTATTCTGGAAATACCGCAAGATTATGTTTTCTGTTTCCAGGGTTATGTA
CTTGTGTCCAGATGAATAAAGCAGAAAAGAGGGGATTGAGTAGCATTTCCCAGATTCTTAAGTACTTTGCTATT
CGATTTGCCTTTCAGTGTAGTGTACATTGTAAAACTCAGATATTGTCATGATGTTTCACTTGGACATAAGACTTA
TTAATGTGGTCACTTAAGGGGTAAGGAATTTAAGAACTGGATGAGGTTATTTCTTCCTTTACTCTTCAAAATGTA
TTTTTGATACATCAGTATGAGAGGACGTCCCATCAACAAAGCATCGATGATGGACAGTCTCACACTATTTTTATC
ATATGTTTCTTTGTCAGCCTTCTGCTTCTAATCCCAGTAAGCAACTTGGACAGGCATTTTAAAAGCTGAAGAAAA
GTGACATTATTTTAGCTAGTGGTTTTTAATTTATTTTTTGTTAAGATATAATGGGTGATTATATAAGTTAGATTT
ATTTATGATATCAACTTGGGTCCAAGATGATAGTTTTAGCTAGCTTATGAACATTGGGTTCACAAGGCATTGGGT
AAGTTAGATAAAATAGCATATACTTTCTCTGCAGGGTAGGTAAGATAGGTCAGTCAAGTTGGTAATGCCTGTCCA
TTAACCATTTATGCATACTAATAAAATTATAAGAATAAAATCATAATGTTGT
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FIGURE 1723

LSGRPSSPSPRLRGQLPALAARASPTRVKLLGLGVLRLRGCPAPEFGSLKIIKAGKLKTKKSNKASDFSDMENWP
TPSELVNTGFQSVLSQGNKKPQNRKEKEEKVEKRSNSDSKENRETKLNGPGENVSEDEAQSSNQRKRANKHKWVP
LHLDVVRSESQERPGSRNSSRCQPEANKPTHNNRRNDTRSWKRDREKRDDQDDVSSVRSEGGNIRGSFRGRGRGR
GRGRGRGRGNPRLNFDYSYGYQEHGERTDQPFQTELNTSMMYYYDDGTGVQVYPVEEALLKEYIKRQIEYYFSVE
NLERDFFLRGKMDEQGFLPISLIAGFQRVQALTTNLNLILEALKDSTEVEIVDEKMRKKIEPEKWPIPGPPPRSV
PPTDFSQLIDCPEFVPGQAFCSHTVRVMIF

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FIGURE 1724A

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CCAGGGAGAGGACTGCGGCCAAGAGTGCCCGGTGGGGACGTTTTGGCGTGAACTGCTCGAGCTCACTGCTCCTGT
GGGGGGGGCCACCTGCCACGGGGTCACGGGGCAGTGCCGGTGTCCGCCGGGGAGGACTGGGGAAGACTGTGAGGCA
GGTGAGTGTCAGCCGCAGCCCCAGTTCCGCCTCCCCAGGCTGCACGGCTCCAAGCTGGTGGGGCCCTGAACTGTG
GGGGCCCCAGCCCTGCGGATCCCAGGCCCGTCTATAGCAGGTGTGAGAGCTCACAGTGCACTCCCCTGGGGTAGG
GAGGGGGGGTCTGTGGCTGCCCCACCAAGTTCCTGGGGCCTCCAGGCTGCCCTCTCGGGCTGCTCCCTCTCTGCA
TGAGGCTCCATCTCTAACGGGCTCGGCTCCTTGTGTTGCCAGCTGAACGGTGCCGGGGGCTGGGGGTCCTCTACT
GTGGGTGCGCACCCCGCAGCCTGCAGCCCCAGGAGGTGCCCGGGTCCTCTCCCCTCCCCGGGGCAGGCTGAGATG
GTAACAGTGGTTCCACCTCCTCGGCTGTGGCTCCAGGGGCATCGTGCCATGTTATGTTGATGTGTTGAGCAAGGG
CAGCTTGGGCACTGACTGGCCATGGGGGTGGGCACTAGATTGTCCCGAGGGCCGCTGGGGGCTGGGCTGCCAGGA
GATCTGCCCAGCATGCCAGCACGCTGCCCGCTGCGACCCTGAGACCGGAGCCTGCCTGTGCCTCCCTGGCTTCGT
CGGCAGCCGCTGCCAGGACGTGTGCCCAGCAGGCTGGTATGGTCCCAGCTGCCAGACAAGGTGCTCTTGTGCCAA
TGATGGGCACTGCCACCCAGCCACCGGACACTGCAGCTGTGCCCCCGGGTGGACCGGCTTTAGCTGCCAGAGAGC
CTGTGATACTGGGCACTGGGGACCTGACTGCAGCCACCCCTGCAACTGCAGCGCTGGCCACGGGAGCTGTGATGC
CATCAGCGGCCTGTGTCTGTGTGAGGCTGGCTACGTGGGCCCGCGGTGCGAGCAGCAGTGTCCCCAGGGCCACTT
TGGGCCCGGCTGTGAGCAGCGGTGCCAGTGTCAGCATGGAGCAGCCTGTGACCACGTCAGCGGGGCCTGCACCTG
CCCGGCCGGCTGGAGGGGCACCTTCTGCGAGCATGCCTGCCCGGCCGGCTTCTTTGGATTGGACTGTCGCAGTGC
CTGCAACTGCACCGCCGGAGCTGCCTGTGATGCCGTGAATGGCTCCTGCCTCTGCCCCGCTGGCCGCCGGGGCCC
CCGCTGTGCCGAGACCTGCCCAGCCCACACCTACGGGCACAATTGCAGCCAGGCCTGTGCCTGCTTTAACGGGGC
CTCCTGTGACCCTGTCCACGGGCAGTGCCACTGTGCCCCTGGCTGGATGGGGCCCTCCTGCCTGCAGGGTAAGCC
ACATCTAGGAGTCCAGGGACCGGGGTCCAGGCCTGAGCGAGGGTGCTGGCCTCTTGCAGGGCCCACAGGACACTT
GGTGCCTGGGGGAGGGAGGAAGGGGCTGTTAGGACTGAGGACCGTGCCTTTCACCTGTGCCCCTCTCCAGGCAGG
GATGGGGAGTGAGGCTGGGCTGGCAGGTCATCCTAGGGGCAGCCCCCTGCAAGGTGCCTGACCCCAAAGTCCAAC
**ATG**GGGCTGGAAAGCCAGACAGACCCTGTGGGGCCAGCTGGCTGGGGGATGCAGGTTGCTCCCTCTTCCCTGGCC
CCAGCCTGCCCTGCCGGCCTGTACGGCGACAACTGTCGGCATTCCTGCCTCTGCCAGAACGGAGGGACCTGTGAC
CCTGTCTCAGGCCACTGTGCGTGCCCAGAGGGCTGGGCCGGCCTGGCCTGTGAGAAGGAGTGCCTCCCCCGGGAC
GTCAGAGCTGGCTGCCGGCACAGCGGCGGTTGCCTCAACGGGGGCCTGTGTGACCCGCACACGGGCCGCTGCCTC
TGCCCAGCCGGCTGGACTGGGGACAAGTGTCAGAGCCCACCTGCCCCCGGCCTGTCCTGGCCCACAGATCCCCAC
GGGCCCCTCCTAGAAGCCTCCGCAGCCCTCATCTTTCTGCAGCCTGCCTGCGGGGCTGGTTTGGAGAGGCCTGTG
CCCAGCGCTGCAGCTGCCCGCCTGGCGCTGCCTGCCACCACGTCACTGGGGCCTGCCGCTGTCCCCCTGGCTTCA
CTGGCTCCGGCTGCGAGCAGGCCTGCCCACCCGGCAGCTTTGGGGAGGACTGTGCGCAGATGTGCCAGTGTCCCG
GTGAGAACCCGGCCTGCCACCCTGCCACCGGGACCTGCTCATGTGCTGCTGGCTACCACGGCCCCAGCTGCCAGC
AACGATGTCCGCCCGGGCGGTATGGGCCAGGCTGTGAACAGCTGTGTGGGTGTCTCAACGGGGGCTGCTGTGATG
CGGCCACGGGGGCCTGCCGCTGCCCCACTGGGTTCCTCGGGACGGACTGCAACCTCACCTGTCCGCAGGGCCGCT
TCGGCCCCAACTGCACCCACGTGTGTGGGTGTGGGCAGGGGGCGGCCTGCGACCCTG**TGA**CCGGCACCTGCCTCT
GCCCCCCGGGGAGAGCCGGCGTCCGCTGTGAGCGAGGCTGCCCCCAGAACCGGTTTGGCGTGGGCTGCGAGCACA
CCTGCTCCTGCAGAAATGGGGGCCTGTGCCACGCCAGCAAGCGGCAGCTGCTCCTGTGGCCTGGGCTGGACGGGG
CGGCACTGCGAGCTGGCCTGTCCCCCTGGGCGCTACGGAGCCGCCTGCCATCTGGAGTGCTCCTGCCACAACAAC
AGCACGTGTGAGCCTGCCACGGGCACCTGCCGCTGCGGCCCCGGCTTCTATGGCCAGGCCTGCGAGCACCCCTGT
CCCCCTGGCTTCCACGGGGCTGGCTGCCAGGGGTTGTGCTGGTGTCAACATGGAGCCCCCTGCGACCCCATCAGT
GGCCGATGCCTCTGCCCTGCCGGCTTCCACGGCCACTTCTGTGAGAGGGGGTGTGAGCCAGGTTCATTTGGAGAG
GGCTGCCACCAGCGCTGTGACTGTGACGGGGGGGCACCCTGTGACCCTGTCACCGGTCTCTGCCTTTGCCCACCA
GGGCGCTCAGGAGCCACCTGTAACCTGGATTGCAGAAGGGGCCAGTTTGGGCCCAGCTGCACCCTGCACTGTGAC
TGCGGGGGTGGGGCTGACTGCGACCCTGTCAGTGGGCAGTGTCACTGTGTGGATGGCTACATGGGGCCCACGTGC
CGGGAAGGTGGGCCCCTCCGGCTCCCCGAGAACCCGTCCTTAGCCCAGGGCTCAGCGGGCACACTGCCCGCCTCC
AGCAGACCCACATCCCGGAGCGGTGGACCAGCGAGGCACTAGTAGAGGCAGTCCCGTGGAGCCCGCCTCTCCAGT
CCCAGCCAGAGGGGACCCTGGCCTTTGGTGACCACTGAGAAGGACACTTCACGGGCCCAGAGCTCCTGGTACTGC
CCTTCCTTTGAGGGCCGTGGAGGGCTGTGGACAGCCCAGCAACCTGTCGCTCTTGGAGGCTGGTGTGGCCTTGAG
GAGGGAAGCCTCGCATGGCCGCTGGAAGAGAGGCGCCTCCTGGCCTGGCTCTGCAGAACCCAGGGGCACGCTCTG
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FIGURE 1724B

GGCCTGGGCTGAGGAAGTCCCGCTCTCCCCGCGGCTCTGAGTTGGACTGAGGACAGGTGTGGGCGCCAGTGTGGG
TGCAGGCGCAGGTGCAGGCACAGGGCCACTGTCCTCCAGGCAGGCTTTTTGGTGCTAGGCCCTGGGACTGGAAGT
CGCCCAGCCCGTATTTATGTAAAGGTATTTATGGGCCACTGCACATGCCCGCTGCAGCCCTGGGATCAGCTGGAA
GCTGCCTGTCATCTCCTGCCCAATCCCCAGAAACCCTGATTCAGGTCTGCAGGCTCCTGCGGGCTCACCAGGCTG
CTGGCTCCGGTACCATGTAAACCTAGGAAGGTAAAGGAGCAGGCAACCTCCTCGTGGCCTGTGTGTTTGCTGTGT
TACGTGGACTCTGTGTGGGCTCCTCCCTGGGGCCCGGCCAGCATAACGGTGCACCCAGGGACCTCCCAGTGCACC
CGGGGCCCTTTGCAGGGGTGGGGGTGCCACACAAGTGAAGAAGTTGGGACTCATCTCAGTTCCCAGTGCTATTGA
GGAGAACGCTGGGGCTGCATTCATTACCGCTGAGACCCAGAGACTGGCTGTTCCCAGAGAATGGCCCAGGGGGAG
GAGGGCTGGTGTGGAGGGGCAACCTGGACTGAGGCCGAACTCCCTTGGGCTCACCCCACCCACCCCTACCTGAGC
ATCAGCAGTGGGGGGAGGGCAGCATCGCAGGGGCAGGGACTCCCTGGGTGAGGACAGACCAGCCCTCCCGAGCAC
CTGGCACTCATGGGCTGAGGCTGACTTCTCCTGGAAGAAGGGCCCAGAGTGGAAGGAAGAGGCAGAGGGTAGAGG
TGGTGGCTGGGGGCTCCTCTGCAGAGTGGGGTGGCCAATGGAGAGGGCTGCACTCACACCGCAACATAGGACTCT
CTCTCCCTTAAGAAGGCCCCCTTAGGGTCTGGGCTGCCGCCCCCATCACCCTAAAACCAGCCAAGGTAGCTGAGG
CCCCAGGGCAGACAATTTCACCAGCAGGAGGAGGAGGAGTCCAGTGAGCTTGGTTGCTCACAGACAGCAAGGGAG
CTGTCACAGAGGAAGCTGATGAATGGACCGCTGTGGGGAGACTTTAAAGTAGAACAGTGATAAGGGAGGGCAGGA
TGGTGGGGATGCAGAAGCAGCAGCCAGAGAGAGACGGACTGGGGTGCAGACGGAGTGTGGAAAACGCATACCTTG
AAATGAAGCATCCAGCAGATGGGGTGAGTGGATACAGCTCAGGAGATTCTCCCAGGAATAGCAGGGAGGCGTAAA
GAGAGACAACGTACAGAGATAGATGAATGGAAATGGGTAAGGGAGGTGTTCATTCACATCCATCTAACTGCAAAA
TACAAAAGTAAGAAGTCATTGACATGAAGCAACGACGACCAAGACGTTCTCAGATCTAAAGGTGAATGATCTCAG
TCAGCCTGGAAATGCACAAGGTGGAAAAATAACATAAAAAAGCCATAAGACCTTGAAGAACATCAATGTCAAAGA
TAAATTCTAAAGTCCCAGAGAAAAAAGAATGGGAATCAAATTGACCTCAGACTATACGTGAGAAACACGGAGAGC
CAGAAAACTGTGATGTTCCATCCTCAGAGTTTGAAGGAAATATTTGAAGGCTGAATTTTACATCCAGCTAAACTA
TCAAAGGCATGCAAAGTCCATGTTATTCTTAGGCCTTCAAGGCCTCGGCCATTTTTCTACAGAAAAGCCTGATTT
TAAAATGCTCTTAGAGACGTTCTCCAGCCAGAAGAGAAAGAAGCCAGGAGGGTGCTCTGAGATATTCAGTCACCA
CAGTTCCCAAATGGCCTAGGAATTCAGAGAGTCAGAATATCACCATTACTCCCCAATGGGAACCCCCGACAGTCT
CAGCATGGTGTGAGGGTGTGGACGGGGGGCCTGGCAGGTACCAATCACTCATCCCGCTCAGTGAAGACACAGTGT
TCAGCTACGGAAGCCATAAGGCAGGCCGAGCTTCTGCCCATCCGGAGGAAATCTCAGCTATCCAACGGCGGTCAG
GAGCAGAGGAAAATAAAGCAGAATAACTAGAAAACACGCTCACAGATCCTAATGTTAACGGTTACAAATGACGAC
GGAAAAACAAACTCCTGACCATATATTATATAGTTTCAAGCAGCAAGAAGGAGGATATTGAACATTCTCAACACA
CATAATAAACGCTTGAGATGATGATATGCTCATTACCCTGATTTGATCACTAGACATCCCATGTATCAAAACATC
ACTGTGTATCCGATGAATATCTACAATTATTGTCAATTAAAAACATCATTAAAAACAA

FIGURE 1725

MGLESQTDPVGPAGWGMQVAPSSLAPACPAGLYGDNCRHSCLCQNGGTCDPVSGHCACPEGWAGLACEKECLPRD
VRAGCRHSGGCLNGGLCDPHTGRCLCPAGWTGDKCQSPPAPGLSWPTDPHGPLLEASAALIFLQPACGAGLERPV
PSAAAARLALPATTSLGPAAVPLASLAPAASRPAHPAALGRTVRRCASVPVRTRPATLPPGPAHVLLATTAPAAS
NDVRPGGMGQAVNSCVGVSTGAAVMRPRGPAAAPLGSSGRTATSPVRRAASAPTAPTCVGVGRGRPATL

FIGURE 1726

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CTCGGGGTAATGCTCTTCTCCAAACTGTTTTTCGGAAGCAGCGGTGAACGGGATCGTGCACGATGTGGACGTGCT
GGGCGCGGGCATCCGGCTGGTGACCCTGCTGGTGGATCGGGACGGGCTGTACAAGATGAACCGCCTGTACCTCAC
CCCCGACGGCTTCTTCTTCCGAGTCCACATGTTAGCCCTGGACTCCTCCAGCTGCAATAAGCCGTGTCCAGAGTT
TAAACCTGGTATTGAAACTGACCTGAATGACGCTGCATATGTACTTTATACCACCGTTTGTAACGTGGGTGCCAC
AGCCCGGGCTGTAGGTCGCCCAGCCTTTTTTTGGGAGCGATGGGGAACAATGACATGAATGGGATTTAGACGACA
GGCAGCAGGTATATTGTGATGGGCCACATCTACCATAAGAGACGGCAGCTCCCTACAGCTCTGCTCCAGGTCCTG
AGAGGCCGCCTCCGTCCAGGGATGGACTGCTAAGGAGCAGCAGCAGCTATGTGAAAAGGTTTAATCGAAAAAGGG
AAGGGCAGATTCAAGGTGCAGTTCATACCCAATGCATTTGAAACAACCATCCTGGCATTTCTGGACCGCAAGAGA
CTTGGACGTCGGCAACAAGACATGAAAGGTCTACCTTCATGTAATGGGTCCTCCTTCAGAAGAGAGCCCTCAGCT
ACTCTGTGAATGACTTGCATAGCTGCAACTGTAATCTCGAAGGTGTCACTTTGTTATTTACAAGATGCTTCTTAA
ATGGGCTGCTCCTGAGCCTCAGTGTCAAGGTGATTCAACTGTTGTGCCAGACAGTGATTACACAGCTCAGATAA
CTGACCTGTCTAGTTAACAGATCACTGCTTCATGTTTTCAAATATTTTAATTTAATACATTCTTTAGTAGAAATA
GTCCACAAAAACATTTTCTTGAATTTAAATATACAACTTTTATATCATGTATCAAACCAGATTTTATATTCAAAC
GATCACATTTTAAATTCTGTACATAACAGTAAGCGCACTAGTCAAAAGACATTTATGTTTGAAATGTCATTTAGA
TCAAACACAAGGGTCAAAGCCCAGGACAAGTATTAAAGTTTTATACTTAAAGAGTACTAAAGGGCCAGTGTGCAG
ATGGGTGGATTAAAAAAATAAATAAAATAAAAAATAGTACTAAAGGGCTTACTTCAGGCAAAAGTGTTCCTGACG
TACCAAAAGTAAGATATAGTTTATTTTCATGCCTCCCTGCTCCTAGTAATGTATGTTTTGTGCTGAACTGGCAG
CTATCCCAATGTGAAATGTATTTTGGATGTATCTGGTGTCATTTTTCTATTAAGACCAAGTATAATGTTTGTTTG
TAAAGCAATAAATCTTGACTTGAAATCAGATCTTGGATGCACCTGTTTGTTTTTGTTTTAGCCTTACTGAGCCCT
AAAGGTTTGAGAAAAAGGCTTTCTCAAATTCATTCCCCAAACCTTGGAACCAATATTCACCAATGACGGCTCACA
AGCAAGCGAATTTTAAACATTTTTCAGTTGGTTTTAAAAAGGTTTAATTGGCCGGG
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FIGURE 1727

LGVMLFSKLFFGSSGERDRARCGRAGRGHPAGDPAGGSGRAVQDEPPVPHPRRLLLPSPHVSPGLLQLQ

FIGURE 1728A

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TTTTGGCTGCCTCTGTCGGTCTGTTCAGTTACCACGTGAACCGCCGACGGAGACCCGTAGTGGGGGAGGCGGCGG
CAGCGTTAAGTGAGAAAGGAAAAAAGACAACGAGGAAAAAGGAGGTGTCCGGGTAGGGCAACGCGGCGACACCCG
AGGCCTGGTGGTGGCGGCGGATCGAGATATTCAAGGCTGAAGCAGCTACGGAACGGCAGCGGCGGCGGTCGGACA
AACTGACTGACCGAGCCGGGTGGTGGCGGGAGCAGCGGGAGCAGCCGGAACGATGCCGGCCGTGAGCCTCCCGCC
CAAGGAGAATGCGCTCTTCAAGCGGATCTTGAGGTGTTATGAACATAAACAGTATAGAAATGGATTGAAATTCTG
TAAACAAATACTTTCTAATCCCAAATTTGCAGAGCATGGAGAAACCTTGGCTATGAAAGGATTAACATTGAACTG
TTTGGGGAAAAAGGAAGAAGCTTATGAATTGGTTCGTAGAGGTTTGAGAAATGACTTGAAGAGTCATGTGTGTTG
GCACGTTTATGGCCTTCTTCAGAGGTCAGACAAGAAGTATGATGAAGCCATTAAGTGTTACAGAAATGCACTAAA
ATGGGATAAAGACAATCTTCAAATCTTAAGGGACCTTTCCTTACTACAGATTCAAATGCGAGATCTTGAGGGTTA
CAGGGAAACGAGGTATCAGTTACTTCAGCTTCGACCTGCGCAGAGAGCATCATGGATTGGTTATGCTATTGCTTA
CCATTTATTAGAAGATTATGAAATGGCAGCAAAGATTTTAGAAGAATTTAGGAAAACACAACAGACATCCCCTGA
CAAGGTGGATTATGAATATAGTGAACTACTCTTATATCAGAATCAAGTTCTTCGGGAAGCAGGTCTCTATAGAGA
AGCTTTGGAACATCTTTGTACCTATGAAAAGCAGATTTGTGATAAACTTGCTGTAGAAGAAACCAAAGGGGAACT
TCTGTTGCAACTATGTCGTTTGGAAGATGCTGCAGATGTTTATAGAGGATTGCAAGAGAGAAATCCTGAAAAACTG
GGCCTATTACAAAGGCTTGGAAAAAGCACTCAAGCCAGCTAATATGTTAGAACGGCTAAAAATTTATGAGGAAGC
CTGGACTAAATATCCCAGGGGACTGGTGCCAAGAAGGCTGCCGTTAAACTTTTTATCTGGTGAGAAGTTTAAAGA
ATGTTTGGATAAGTTCCTAAGGATGAATTTCAGCAAGGGTTGCCCACCAGTCTTCAATACTTTAAGATCATTATA
CAAAGACAAAGAAAAGGTGGCAATCATAGAAGAGTTAGTAGTAGGTTATGAAACCTCTCTAAAAAGCTGCCGGTT
ATTTAAGCCCAATGATGATGGAAAGGAGGAACCACCAACCACATTACTTTGGGTCCAGTACTACTTGGCACAACA
TTATGACAAAATTGGTCAGCCATCTATTGCTTTGGAGTACATAAATACTGCTATTGAAAGTACACCTACATTAAT
AGAACTCTTTCTCGTGAAAGCTAAAATCTATAAGCATGCTGGAAATATTAAAGAAGCTGCAAGGTGGATGGATGA
GGCCCAGGCCTTGGACACAGCAGACAGATTTATCAACTCCAAATGTGCAAAATACATGCTAAAAGCCAACCTGAT
TAAAGAAGCTGAAGAAATGTGCTCAAAGTTTACAAGGGAAGGAACATCAGCGGTAGAGAATTTGAATGAAATGCA
GTGCATGTGGTTCCAAACAGAATGTGCCCAGGCTTATAAAGCAATGAATAAATTTGGTGAAGCACTTAAGAAATG
TCATGAGATTGAGAGACATTTTATAGAAATCACTGATGACCAGTTTGACTTTCATACATACTGTATGAGGAAGAT
TACCCTTAGATCATATGTGGACTTATTAAAACTAGAAGATGTACTTCGACAGCATCCATTTTACTTCAAGGCAGC
AAGAATTGCTATAGAGATCTATTTGAAGCTTCATGACAACCCCCTTACAGATGAGAATAAAGAACACGAAGCTGA
TACAGCAAACATGTCTGACAAAGAGCTAAAGAAGCTACGTAATAAACAAAGAAGAGCTCAAAAGAAAGCCCAGAT
AGAAGAAGAGAAAAAAAATGCAGAAAAAGAAAAGCAGCAGAGAAATCAGAAAAAGAAGAAGGATGATGATGATGA
GGAGATAGGAGGTCCAAAAGAAGAACTTATTCCAGAAAACTGGCCAAGGTTGAAACTCCATTGGAAGAAGCTAT
TAAATTTTTAACACCGTTGAAGAACTTGGTGAAGAACAAGATAGAGACTCATCTTTTTGCCTTTGAGATTTACTT
TAGGAAAGAAAAGTTTCTTTTGATGCTACAATCAGTAAAGAGGGCATTTGCTATTGATTCTAGTCATCCCTGGCT
TCATGAGTGTATGATTCGTCTCTTTAATACTGCAGTGTGTGAAAGTAAAGATTTATCTGATACAGTTAGAACAGT
ATTAAAACAAGAAATGAATCGTCTTTTTGGAGCAACGAATCCAAAGAATTTTAATGAAACTTTTCTGAAAAGGAA
TTCTGATTCATTGCCACACAGATTATCAGCTGCCAAAATGGTATATTACTTAGATCCTTCTAGTCAGAAGCGAGC
TATAGAGTTGGCAACAACACTTGATGAATCTCTCACTAACAGAAACCTCCAGACATGTATGGAGGTATTGGAAGC
CTTGTATGATGGTAGCCTAGGAGACTGTAAAGAAGCTGCTGAAATTTATAGAGCAAATTGTCATAAGCTTTTCCC
TTATGCTTTGGCTTTCATGCCTCCTGGATATGAAGAGGATATGAAGATCACAGTTAATGGAGATAGTTCTGCAGA
AGCTGAAGAACTGGCCAATGAAATT**TGA**CATCACTAAACAAGCAAATGGAATGACTTTGGACCATATCTAGTAT
ATAATATTTTGTCACGCACCTGCTGCATTGCTCTAACTTACACAGAATGAGAGGAGTAAATGTTCTTGCCTTCA
AATAGTGTTTTACGTTTTTTATCCTGCTGAAAAAGTATATATAAAATATCTAACATTACAGGATAGAGGTTCAGT
TTCTTAAAAAATTAAAGCTGCTAAAATTGAGTGGTTAAAAAAGATACCTTATCCTATTCCTCCCCACCCACCCAT
GTTTTTAAACTAATTTATATAAAATCTGGAGGCTGTTACAGCTAACAAAGCAGGTGTGTGGCAGAAATATTACTT
TAAATTTGTCTTGTGAGATTTTACTATATCTCAGACAGCATAAATGCTGTTTTAGCACTGGATTCTTTCACTGAG
CACAAAGAGTTGTTGGGGCTTTAGCATCTGACTGATTTTGTTACGGGGTTGATTCTGACCATAGGAAGTATGCAA
TGTGAATCACTATTTACAGAGAAACCTACAACAGATGCTTGATGTTGTAGAAACTGGGACATATAGATACCAAGC
AAAATTATAAGAAACCTATAAGGTGTTCAATACGCTTGTGTTTCCAAAATTCACTGTACATGATCAGTTTGGTGT
TCTTGTACCACAGTTTTTAACTGAAGGAACCAGTTGTAACAGTCTCAATTTTAACTAAAAACTTGAAGAACTAAAA
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FIGURE 1728B

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CAACAATGCAAACCTTTCAGCATTGTTTGGCCAAACTTGTTAAAACTGTAATGCAAGAACCAAATGCACTGTGAT
GTGGCACCAACTAATTAGCAAGCATGAATTTTTCACCCAAGAGTGAAAAAAGGAAAATCTACCATGGCTTGAAGT
TAAAGAGCAGAACTCCTGACTACCATTCTATGACTGATCAAAAGACTAATAGTTAAAAACCTCAGCAGGCCTTGT
TCACGTATATGCAGAAAAAAAAGTGCTGCAGTTTAGATACCTCTGGAATTTTTCCACAGTGTCACAGGTTTGTAAT
ACTTGAAGCCCTACATTTCTAAGAATATATTTCTTGCTCAGTTGTTTCAGGCAAGCCCAAGACTTTGTAATTTTT
AAAGGGCCCAAGATTTTTTTTTTTTTTTTTTTTTCAAATAACAGACCAGCTTCTTTTTCTTGCAGTTACAGATGT
AATTTCCTTTTTGTTGTCAAACATAAGGTACCAAATATGATGCAATAAATTGTTTTGAAAAACAGTTGTGTGAAT
ATTTCAACTAATCTGTGTTGGGCTTCTGTGAAATACACAGGTGGAAACAGAGGTGCAAGCCAGAGGCAATGTAAT
ATGCTGTAAGGCTAGTGCAGATGGGAGCTTTTTAGAAGGGGCTAAGTGCTGGTGTCAGGGAAATTCCATAATGAA
GTAGAATGCTGCTCCTGCATTAAGATTTCATTGAGGGCAAGGCTGGTGGCAGGTACTATGAATGTAATTCATAAT
TTAAAAGGAAAACTAAAAACTATTTTGATTTGGGAAAATGAGCCTTAATTTGTTAAACCTATACACTGAGAACTA
GCCTCAGGCTTAATATTCTCATTGCATTTGCAAGATCTGAGCAAATAAGATTAAGTAAAACAAATCAATTGTATA
TATAATTGACCTTTTTGTGGAACATGTAGTTTATAGAAAGTATACTCTAAAGGGAATTTGCCGAAGACCTTTTAC
TGATTGAACAGTTGTGCTACAATCAACTTTTCATAGTACATGACCTGCATTCCACATCTCAGTCTAACAGTTTAG
TAGTGATGTAAAGAGAAGTACAAACCGAACTCCAGTGCTTTGTTATGTTTTATTAACTGGCCCTGTCTCAGGAAC
ATCTTAACAGATGGCAAAAAAACAAAAACTTTTTTTCAACTCCTATGAGTGGCAACTGAAGTTCTTATTGTTGGG
AAAGAACACTAGTCCTACCTCTGCCACTAATGAGGTGTTTGGAGGAGGTACCAGCCATATAATAGGGGGTGTATG
TGTGAATTTTGTTTAAACTCTACTGTATATTGAAATGAAATTCATTTATTTGTCTTGACAATGTTCAAATGATGT
AGATTGTCTTAGAATGAATATTCATAAGTACTCAGAACTCTTAAGATGCAGATGCCACCCGTGAGGAGCTAAATT
CCTAATGTGTATTGTATTCCAACCCAATTTTACTGGAACTATTGAATAAATCTTTTATTTTCTTTCAGGTTTACT
TGATAGTGGATACATTGGTGTCAGAGGACCTTGACTGGGTTCATTTTATGTCCAGACATCACCCCTGAAACACTG
TACTGTACTATCTTGCTCTGAGTAGTATCAACTGGATCGTCTCATATTTGCCTCATTCATCCTATTAATTTCAAA
TGATACTGTGGGGGAAAAACAGGGTTAGAAAAACAAGTGGAAAAAATGGAGTGATGTTGTAATCTAAACAAGTGC
CTTATGTTTATTGCTAAGAACTGGTGTTACCAACCCTTTTGAGAAGAAAGGGTCTCTTGACCTGTATTAACATAG
GAAAGTAAAGTTCTTTTTGTTTTTCTTTATAAGCTACTCTTGTCATTTCTCGTTGAAAAACTAAAATCTGACTAG
GTTAGTTTACTCAGCTTTAATTAGATAGTTGAGTCATATATTTTCAACATTTTTCTGTATCGTATTTATTATGCA
CAAAAATAAAGTGTGATCTCTAAT
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FIGURE 1729

MPAVSLPPKENALFKRILRCYEHKQYRNGLKFCKQILSNPKFAEHGETLAMKGLTLNCLGKKEEAYELVRRGLRN
DLKSHVCWHVYGLLQRSDKKYDEAIKCYRNALKWDKDNLQILRDLSLLQIQMRDLEGYRETRYQLLQLRPAQRAS
WIGYAIAYHLLEDYEMAAKILEEFRKTQQTSPDKVDYEYSELLLYQNQVLREAGLYREALEHLCTYEKQICDKLA
VEETKGELLLQLCRLEDAADVYRGLQERNPENWAYYKGLEKALKPANMLERLKIYEEAWTKYPRGLVPRRLPLNF
LSGEKFKECLDKFLRMNFSKGCPPVFNTLRSLYKDKEKVAIIEELVVGYETSLKSCRLFNPNDDGKEEPPTTLLW
VQYYLAQHYDKIGQPSIALEYINTAIESTPTLIELFLVKAKIYKHAGNIKEAARWMDEAQALDTADRFINSKCAK
YMLKANLIKEAEEMCSKFTREGTSAVENLNEMQCMWFQTECAQAYKAMNKFGEALKKCHEIERHFIEITDDQFDF
HTYCMRKITLRSYVDLLKLEDVLRQHPFYFKAARIAIEIYLKLHDNPLTDENKEHEADTANMSDKELKKLRNKQR
RAQKKAQIEEEKKNAEKEKQQRNQKKKKDDDDEEIGGPKEELIPEKLAKVETPLEEAIKFLTPLKNLVKNKIETH
LFAFEIYFRKEKFLLMLQSVKRAFAIDSSHPWLHECMIRLFNTAVCESKDLSDTVRTVLKQEMNRLFGATNPKNF
NETFLKRNSDSLPHRLSAAKMVYYLDPSSQKRAIELATTLDESLTNRNLQTCMEVLEALYDGSLGDCKEAAEIYR
ANCHKLFPYALAFMPPGYEEDMKITVNGDSSAEAEELANEI

FIGURE 1730

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CACAGAAACATGATGTGGAAGTGCTGGAACGGAACTTCCAGACCATCCTGTGTGAGTTTGAGACCCTCTACAAAG
CTTTCTCAAACTGCAGCCTCCCGCAAGGATGGAAAATGAACAGCACCCCCAGCGGGGAGTGGTTCACCTTTTACT
TGGTCAATCAGGGGGTTTGTGTTCCCAGGAACTGTAGGAAGTGCCCACGGACGTACCGCTTGCTCGGAAGCCTTC
GGACCTGTATTGGGAACAATGTTTTTGGGAACGCGTGCATCTCTGTGCTGAGCCCTGGGACTGTGATAACGGAGC
ACTATGGACCCACCAACATCCGCATCCGATGCCATTTAGGTCTGAAAACTCCAAATGGCTGTGAGCTGGTGGTGG
GGGGAGAGCCCCAGTGCTGGGCAGAAGGGCGCTGCCTTCTCTTTGATGACTCTTTCCTGCATGCTGCGTTCCATG
AAGGTTCAGCAGAGGATGGCCCACGGGTGGTTTTCATGGTGGATTTGTGGCATCCAAACGTCGCAGCGGCCGAAC
GGCAGGCTCTTGATTTCATCTTTGCTCCGGGACGATGAGAGTATTTCCCATGCTGGAGTCGGCGAGAAGGGCCGA
GGCGGGGCCTGGGCAGACTGTGGTCCGGTCCAGTCCCTACCGGTGTTGTTTCCATGCTCAGAAACCTGCCTCAGC
GGAAAGCTCTTATTTGGGATTTTATATCATGTCGGGTCCCTCTTTCCCTTGGTTATTGTAAATGGAAACTTTTCG
GCTTGTATTTCCTTAGATTTTTTTTTTTTCCTTCCAATCATTTGCTTCAGAGACTCCTTTCTGGCCTAACAGCGC
ATTCCTTTGATTGGTCCTTGAGTGACCAGAGACTTAGTGCCCTTGTAAGTCTGTCTTCTGTTGCTACTTGTTTTT
TTCAGTGCTCTGAAATAGAGTAACTAAATGGTTATTTGTCTGAATATAATAATGTAAAACTTCTTGTGGTCATCT
TAAAAAAAAAAAAAAAAAAAAAAACTAAAAACTGCAAACCAGAGAGCTAGAGAACTTGGCCTCTGATGCTGGCACA
CTGGGGACCCTTCAGCCACCTGACGGCAGGGGGACAGTCTGCAGCCCCCACACCTGACTGGCTTCAGTAGCCAGG
TGGAGGGGCTGCCAGACACAGTCAGGGTGGCACACAGTGTCCAGGCCCAGGGATACTGTCACCATCGCTCACCTC
ATTCTAAACCTTGTCAGGTCCCTGATGGCAAAAGCATTGGGCCAGTAGGACTGGAGGCTACTCTTTAAACATGGC
TTTCCTGCAAAGCTGAAGCTGGTGTCCCCCAGCACCAAGCTGCGGCTCACACAGATCAGCCACGGAACGTGTGAT
CCGCTTACCTCACTGCCTACAGAAGCCCTACTGCCAAACTGGGCCTGGAAAATTCCCAGTTTTAGGTGTTTTGAG
TCCACAGTGATGAACGTTAAGGCCACCAGGTTGGCTGATAGGAGCTGTAGGGGGATAGGACCGCGCTCACCCAGC
GACATTTGGGGAAAGCCTTTCTCTGGCAAAACTGGAATAATAGATCTGACCAAAGTTTCTGTTTTGCTTTGGAGT
TCTGTTGCCTATGTTTTTTTTTTTTTCATTTATTTGTCTGTACATAAATGTTCAAACACTAGACTTGGAGATAGT
GGAAGAGTTGGCCCTGTGTCTTTGTCATGGCACAAAGGTGTGCACTGCGTGACAATGACCCAAGCCAGTGTGTGC
TAGTGAGGAGACAGAGAAGACCTACATGCCCAGAGGACCCGTGGCCGTTGTGCTGGTTTTCTGGTCTCCTGTGAA
GAACATGTGGATCTCTTCCCGAAGGAAAAGGTCCCAGGAGACCAGTTTGAGGCACTCACTCTAGAAATAGCCTGT
GTTAGCTGATGTGTGAAAGCGTAGCCGGCCAGCCACACTAGAGATGCCTTTTCTGAATAATGTATTATGAGCAGT
GTCAGATTTATAAAGCCGAGGAGTGGTTTGGAATATACAGCTGGTCGCAGGTGCAGGTCCAGTGTTAGATCCAA
ATGGAAAACAGCAGCTTCTAAGAGGTACAACTGTTGGAAGAAAACACAGTTGAAATGCACCAGGCAGGTACTAGC
AAGTGTGCAAAGAGCACGTCTACATTTGAGTAAAATGTCTACACAGATATTTGTCAGTGATGAGAATGCAGGAAA
AGGCAGACATTTCAAACATACCTGAAGTCTTTTTACTCATTATCTTGTTAAAGAATCACTGAGGTGCATGATTTC
TACACATCGTGACTGCTCTGCTCTGCGTTTACAAAACCAACAGCCCGCGCAGGTACCTAGCTACCTGCATTCATG
TGACATGTCTGGGGAACAGAAGATAAATAAAGGATCTTGCTGAAAACCAGAAAAAAAAAAAAAAAAAAAAAGAAAA
AAAAAAAAAAAAAAG
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FIGURE 1731

GAATTCGGCACGAGAATGAGCCCCACAGAATAAAGGTTTTTCCTCTTGCTGTGGCCTACTGGAAGCCTTCCTAAC
TCTATAGCTGGTAAAGTAGAGCAGAAAGGGCCAGAATGGCTTAAGATGGAGCTAAATCCCTATAGCATTCCATTT
TCTGCTCTTGCCTCTTGAACTTAGAAGGCTTGCCCATATATCCTAACAATCTGTTCTCTGAGCTGTTAGGCCAAT
CCCTGGTCTCAAACTCCTGACCTCAGGTGATCCACCCACTATGGCCTCCCAAGGTGCTGGGATTGCAGATGTGAG
CCACCGTGCCTGGCCAGAAAATCTGGATTCTTATTCCTAGTTCTTCATTTCTGTCAC**ATG**CACTTAGTTGACATT
ACATCTACATATATTAGCTTTTTCCTACATGAGCCATCTATTTACTTAGTAACCAGTGTTCTTAATGAAGTATTT
AGTCTTGGGTTTCTTGTAAAATTTCTCTGCATTCCT**TAG**ACAGTGTACTATACATGAAATATTCTTGTTGACCTA
GTAATTTATATTATTCCATTTAATTCTTAAACCTATGGCCTTTTTATTGAGCACACTCTTAAATCATTATTTGGC
TTGTAAACATTCATCTGAATTGTGGCTACAATCCTCTTTAAATAATCTAGGAAAAAAGAAAGATAAAGCTTACAT
TTTCACAGTTTTGGCTCTTAAACACATTCCACAAATGCCATTAAGAATTTATTTTGTTTTAGGCCAGTCATGGTG
GCTCATGCCTGTAATCCCAGCAATTTGGGAGGCTGAGGCAAGAACTGCTTGAGCCCAGGAGTTTGAGACTAGCCT
GGGCAACATAGCAAGACCCTGTCTCTACCAAAAAAAAAAAAGTTTATTTTGTTTTAGAGTCATTTAATGTGTTTT
TATGCACAATAATAGTGGGAGGTTGTTTTGTTGCATTTGTTTGTTTGTTTTGTTTTGTTTTGTTTTGCTTTCCAT
GTGGGAAAAGTTAACATTGGAACTGTTTCTAGTAAAAGATTTTTTTCAGGCTGGGCACGGTGGCTCATGCCTGTG
ATCCCAACACTTTGGGAGACCGAGGGAGCTGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGG
AAAAACTCCATCTCCACTAGAAATACAAAAGTAGCCTGGTGTGGTGGCACATGCCTGTAATCCCAGCTACTTGGG
AAGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATCACGCCATTGCACTCCA
GCCTGGGCAACAAGAGTGAAACTCCGTCTCAAAAAAAAAAAAAAAAAAAGATGTTTTTCATTTTTTTCATGTTATC
TATCCAAGCACTGTTCCATGGTCAGCAAGTCATATTTCATAATGTGGATTTTCCAAAATAATTATTGAATACAGC
TATTCTATGGCTACTTTTAGTGTTTTTGTGGTATGTGGTGTGGGAGTGTTTATGGAATTACCAGTATCTTAAATT
TTCAAAGGAACCTTGGAAGTCTATCACTCTAAATGAAAGTCTGTCACTCTACATGAATTATGTGCTCAAATTTGA
CCAACTCAGTTTAAGACACAAAACAGTAATTTGAAGAAGGAAAAATGAAGAGAGTTTCTAGTTTAATGGGTTAAA
TTTTTGTTGTTGCAATAGTAAGTTTAGTCTTCTTATAATATTTCTAAATGAAAAATCATAGGTATTTGTTACCAT
GTGTGAAGATTACTTTGTTAAAAGCAAAAGTGGTCGTGTGATATGCTAAATGTTAATTACTGATTTTATATGTTT
AAATCACGCCAAACAAATTATGTCTGTGCCATCCAGGGTCTGTTGTTAATCTTTTTCTGAGTACTTGGATTGGGA
TAAAGGGCTTGTACTATGCACTTTTTATTAATGAATAAATAGAAAACGTTAGTAACACTTTGTGTTTTCTGTTTG
GCTTTTGTGGGAAGAGAAGCAAGCATCTTTTGCCTAGTAGATGTTAACATTGTGTATTAAACAGTTTCTTTGTAA
GACCTAACTAAAGACATTCCTAAGAGAGAACTTAAGTTTTAAGAAAAGTTGTGAGAAAAATATTCATAAAATATG
CAGTATGGGGCCAGTATTCAGAAGTAGAGTTTCTCTCTTGGAAATTAGATTGCAGTCACATTTCTTTGGTTATTT
TCTTTCTCTCTCTTCCTAGAATACCAGGTAAAATAGACATTTACTTTGAGGGACTAATATCCAATAGTGTTAA
TTATTTAAGCAGATATATCTAGCTCAAAAGGAACCAGACATGTCACTGTACCAAAAACACACAAAAGTGAAAATT
TGCTTCTGTTCTGTGACCTAGAATGTGTCCAGACATTAAAGATCATGAATACTCATATACATGTAAAAATAGTAA
CACTGCTCTGGCATGATTTTGACGTCAGTGTTTATGTAATAACTTCAGTGTTATATTTAAAATAGATAAATTTGT
GAAATAACAATTTCTTGGAGACAGTCAACTTTTTATGATTTAATCTAAAGATTGTCATGTACATGTCAACGGATA
TCTGAATCCTCAGTGAAACTGTTAAGTTTTCATTAAATGACTCTGCTGCAATACTAGTTTTCTTCTCAGAAAATG
GAATTCAAATAAAATAAGTTTTTTGGTCTTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1732

MHLVDITSTYISFFLHEPSIYLVTSVLNEVFSLGFLVKFLCIP

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FIGURE 1733

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TCAAGGGCCTACTTTATGGCAGACATTGTGCTAGTGCTTTTATTCTAACTTTTATTTTTATCAGTTACACATGAT
CATAATTTAAAAAGTCAAGGCTTATAACAAAAAAGCCCCAGCCCATTCCTCCCATTCAAGATTCCCACTCCCCAG
AGGTGACCACTTTCAACTCTTGAGTTTTTCAGGTATATACCTCCATGTTTCTAAGTAATATGCTTATATTGTTCA
CTTCTTTTTTTTTTATTTTTTAAAGAAATCTATTTCATACCATGGAGGAAGGCTCTGTTCCACATATATTTCCAC
TTCTTCATTCTCTCGGTATAGTTTTGTCACAATTATAGATTAGATCAAAAGTCTACATAACTAATACTCACAGCT
GAGCTATGTAGTATGCTATGATTAAATTTACTTATGTAACTTTTATTGTCTTTGGCATTAACAGTGTTTCAAAAA
ATTTTCTGTGTATACCCATCAGTGATTCATTCCCAAATCTTCTAGAAGCATAAGTGTCTCAATATATTAAAACAT
ATTGAATAATCCTTGTTAGAGTTATCCTTGCAGGAGTCCTTAGTGCTCCTTTATCCAATTTGTACTTG**ATG**CCCT
CTAGGCAGGGTGTACAGCTAGCTGTTGCTCTGGTATTTCCTATAACCTTCTTGGGGATTTCTTTTACCTCCTGTG
TTAGACTCCTGTTTTCTGGATTCCCCCTTTTCCCTCTTTCTTGGTCTACTTTTTGTAGAACACAAGACTCTACTA
GCTTCCTGAGAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGAGACTCGAAGCCACTGTT
TCATTGTCACTATTGAGAATCTAAATGGCCATTCGGATTCTTTCATCATCTTTATAATTTTACCTTCCTATTTCT
TTCCTGTCCTTTTAATGGAGTTTTGGGAGAGAGCAGAGGTAAACATGATT**TGA**AAAAGCCATGTCTGACCAGAAA
TTCTGTGCTGGCAAGATATGTATTTCACCTTTAGGG
```

FIGURE 1734

MPSRQGVQLAVALVFPITFLGISFTSCVRLLFSGFPLFPLSWSTFCRTQDSTSFLRXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXETRSHCFIVTIENLNGHSDSFIIFIILPSYFFPVLLMEFWERAEVNMI

FIGURE 1735

AATTTAAAATTTGTTTAATGCACTGGAAATAAAATTGGACATATTTCACTGTTTAAAAAATCAGAAACAAAACAA
AGCAAAACCATGAGGGAAAAAAACAGCAAATAAGCAACAGGGGAAAAAAGCTATGAAAAAAATATATTTGTACTG
AATACACATACAAACTACATCCCACATGAAAGATTAATATCATCAAGTAAGAAAAATACATAGTTTAAACTACAA
TGCTGAAAATATAAAAGGAACCTGGTAGTTCAATGGGGATGGAGAAAACAGAGCATTCCTCTGAGAGCAGAGATC
TTGTCATTATTGCAATTAATGCCCAAACAGGTTAAATGTGGAAGAAAGTATGGAGGAAATAACCCCAGCCTTCCT
CATACCACTGGATTTCCACATCACCTTTTAACTTATGCTTGAGCTCCCTTTTGAGAAAAAATATTTAAAAACAAA
TTGGCTATGTAACAAATTTGTGTGTGTGTGTGTATATATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGC
TTGAGAAAGTGGTTTTTCAAGATGTATGTGTACAGTACACACATGGACACGCTTCAGTCCTCTGACTTCCCATGT
GCTACCTCATGTGTTTCTCTTCTCATGAGGATTTGCA**ATG**GATAGTTGTACAACCTGGGGACTGTCAGTGACTCA
TTGGTATCAGCATATGCTAAAGAAGCTCTTGAATCCAATCTTGAAACCTGATCTCCCTTCGTCAACATTCCCCAA
TACCAAACTGGCCCGTTTACCCATACAAATGCACAGTAAAGGGAAGAACAGCGGTATTTTTCCTAGCCAACTGAC
TCTATCATTTGTT**TAA**TGTTTGCTGGTTTTTTTCTGGTTTTGTTTGTTTTAGAGCAGGGGTGGGAGTGGCTGTA
ACTTCACAATCCTAATACAGTAAATGTTTTGCATCTTCCATGTTTTATGCAAAAACAGACATTTAAATCAATAAA
TAATTGTGCCCTAGACTGAAGGTTAATGTTTAGGAGAGGAAAAAAATTGTTGGAATTTTTTCTACATTTTTTTGT
GAAGAATCTTTTTTGGAAAGGAAGGATACATATTTTTGTTGTGTAATATTTTCTATTTTTGAATGCATTTTATTG
GTACAAGACTGTTTTTTTGGTGAAGACATTATTTAAAAAAACAGTCTTGTACCAATAGTCGAC

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FIGURE 1736

MDSCTTWGLSVTHWYQHMLKKLLNPILKPDLPSSTFPNTKLARLPIQMHSKGKNSGIFPSQLTLSFV

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FIGURE 1737

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GGGGGGATCATAAATGACAGGTGTGTGGAGGTCATTGCAAAGGAAGGACAAAACCTGAAAGAGCTATATTTGGTGT
CCTGTAAAATCACAGATTATGCACTGATAGCCATTGGGCGATACAGCATGACAATAGAGACTGTGGATGTCGGAT
GGTGTAAAGAAATCACAGACCAAGGAGCCACCCTGATTGCACAGAGCAGCAAGTCTCTGAGATATTTGGGGCTGA
TGAGATGTGATAAAGTCAACGAAGTGACGGTGGAACAGCTGGTGCAGCAGTACCCCCACATCACCTTCAGCACCG
TCCTGCAGGACTGCAAGAGGACCTTGGAGAGAGCCTATCAGATGGGCTGGACCCCCAACATGTCTGCCGCCTCCT
CCTAGCGCTCCTGCCTCGCCTAGTCCACTGGGATCATTCAGCAGAGCAGAGGAGAATTGTACATTGGGGAGCTG
ATCTCTCGGAAGGGTTTTAACTGTCACCTGTCTGTGTGTGTTCAAGTATGTGTATTTGTGTCTTGTTTGCATACT
GCATACCAAAAGTGCAGTTGTCATTTGTTCCCAAGTGAGCTGGCTTTTTTTCTTAGAAATTAAAGATTATGAAAG
CCACAAACTTTTTAGTTTTTAACTTCAAAGGCTTCTTTCTCTTTAAAAAAAAATTATTTTTAATATAGAGTCAAA
AAATTGGATGTATTATTCTGAGCTTCTAATTGCTGCCACTTGGAGATGTCCAAGTAAGAAGGCCTTCTTTTTACA
TGGGATGAATTGTGCACTTCTACTGATGATGACTACAGCAGAAGTGATGTTATACGTACAGGCACTTACACTCTC
TCACATATTCACACGTATGCACATCTACACCAGGGCTCTGATCTACTCTAGATCGTTTCCTGACAGAGAAGCCTT
CTTCCAGGCCACTAAGGTAGCATGTTATCCACTGTGGCACTGCCTAACTCCGTGTATCCTCGGGTGGCCAACTTG
CTATCTGGTGGGTGACTTGGGGACTAGAAAGAATAAAGCCTTTTCTAAATTTGTTATATAGAGGCAACAGTCTGA
ACTCTCCTGGCCAGCTCACGAAAGTTAATTATACATTATTCTACAAATGCATTCTGTTGAGCACTAAATATTTTA
GTTGGTTTTATGTTAACATTGTGTTAGCTTTTATTTCCTGGATAGTAACTGGTCAGGATATATTTTAATGATATT
TGAAACTAATCTTAGCATTGAAGCCACCAATGTAATTAATGGTGTGCAGTTATTTAAAAACTACAGATCATTTC
ATTATTTTCTTAATTTTGGTAATTATTAAAGTCTATTTCTGAGATACGAGAGGGTAGTCACATTAATAGAAGATT
CATGAGTGAGATATAAGTAGACAATCTTTCTACTGTTGTTGCTCTTTTTGCTTTGCTTTGGGTTCTTGAACAGGT
TTTTTGGATATATGCATGTTGTCATTTTGGACTAGTTCTCATGCTACTGCAAAGATCTATTGCTAGCTAATATAT
GAGTTAAGAAAGAAAATTAGAAAATCTGTTCATTGAAATTCTGTTTACACTTGTCAGAAATAAGCATTTCTTTGT
TTAATTAAGGATTGCCAGCTTCAGTTAAGACAAGACCTATCAGTAAATGAATATATGTTTTGATTTAACACATCT
TTACAATTAATTCATAATAGGGACTCAGGCTCAAATAACTGTTCCTGTGTCTAGATTTATAATGAGGACATCAGG
GAGCCTTTTTAAGCTAAAGAGTGATTATCTTTCACAGTAGAACTAGAAACAAAACCCTAACTTGTGAAGTTGCTA
TTTATTTTTCCCTGAGTGAATATAACTGTTATTTGGTCTTTAACAGATATACTGAGGTTTGAGTTTCACTTTCTT
TAAGTCTCACATTGCTAACATGACATTAGCTGTAAGAAACAAGATAGCTTTACATTTGAATGCCATTTACTGATT
TCTAATGATTCTCTTTTTTTGTAAACAACTGTTTCCTTTGATTATGTCAACATGTTTCTGATGTGGCATTTTTGT
TTTAATCCCAATCGGTTAGGAAAATCTAGTCAGTAAGCGCCATGAGTATTCTTCCCATAACTAAATGGGTTTCTA
ATTTAATTTGAAGGGAATAAAAATTTGTGTAAGAAAAAAGCTGTTTAACATTAATAAACTATATTTCTTCTTACAC
ATTGAACTGTATCATTTTCATATCCACTTCCCCACCACTGAAATATCTTATTTCACAATATTTTAACTGATTTTT
AATCCAAAACTAATTTATAAGACAGTATGTATAGTAATAGTAGCTTGAGTGAATATGCAAAAGTTTAATTTTTAT
ATATGTCATACTATATTTTAAATAGTTAAAAAAGACAAAAGAAGGGAGAGCCATCTATGATATAGATGGTACCAT
TTCAGTTCAAAGTTGTAATAACCTTTGGAGTGTTACAGTTTGGTTGTCAAATGGTTTCAGAATGTATAATTGATT
TTTTTAAATGTTGCATTGTTTGAATCTAAAGTACAGCACTATAACATGCTTTAGCTTGGGGGGGTTGGGTGTGGGG
TGGGGACTTGCACTTATTCTCTAAAATGTTGACTAATCCAGAAAGCCTGATGCAACATAATCGGAAAACTGCTT
TGGTACATTTGTAGAAATCCATAGAAATACCATATCCAGCCTCAAAGCATTAATCTCNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNGCCAGAAAAAGCATCACCTTGAGTGGTCCTGTGATGGTTGTTGAATGTGTTCTCATTAGA
TGCTTTGAAATGAGGCTTAAAATAATTTTTCTGGGCAATATAGAGTTTCTTTTTTTTGCTTAGAATGTCATAAAT
ACATGTGAACACGTTTAATGCAGGGCTTTTTATTCTCTCCAAAATGTCAACAGTATTTTCAGAATAAAGACTATG
AAATATATTGCTGTAGTGGAAAATTCTGGTCCTTTGTCTTTAATGTCTTTTTGAGTGGATAAAGAAAATTCACCC
GGTTTGTAGTTTCTATATTTCTGTGAATCTTTGACCTTGCAATGGGTTGCAATAAAAGAGAAAC
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FIGURE 1738

GIINDRCVEVIAKEGQNLKELYLVSCKITDYALIAIGRYSMTIETVDVGWCKEITDQGATLIAQSSKSLRYLGLM
RCDKVNEVTVEQLVQQYPHITFSTVLQDCKRTLERAYQMGWTPNMSAASS

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FIGURE 1739A

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TTAGAGGTCCTTTCTGCTTTATAACATTAGGTTCTTCTTGTGAGGCCTTAAGCATTTGCTAAACAGGTTCAAGTA
AGTTTAGTAAAGTTTCATTACTGCCATTGATTCAATTATCAAACTGCTTTTGTACATATAAAGAATTCTTCAGAT
GCATGGTTTCTATTAACAAGATCCAATGCCTTCCTTTTATTTCCCCTTCAGTTCAACATCTAATATATAAAGATT
GCTCTGACTACTACGCAATAGGCAAAAGAAGCAGTGAGACCTACAGAGTTACACCTGATCCCAAAAATAGTAGCT
TTGAAGTTTACTGTGACATGGAGACCATGGGGGGAGGCTGGACAGTGCTGCAGGCACGTCTCGATGGGAGCACCA
ACTTCACCAGAACATGGCAAGACTACAAAGCAGGCTTTGGAAACCTCAGAAGGGAATTTTGGCTGGGGAACGATA
AAATTCATCTTCTGACCAAGAGTAAGGAAATGATTCTGAGAATAGATCTTGAAGACTTTAATGGTGTCGAACTAT
ATGCCTTGTATGATCAGTTTTATGTGGCTAATGAGTTTCTCAAATATCGTTTACACGTTGGTAACTATAATGGCA
CAGCTGGAGATGCATTACGTTTCAACAAACATTACAACCACGATCTGAAGTTTTTCACCACTCCAGATAAAGACA
ATGATCGATATCCTTCTGGGAACTGTGGGCTGTACTACAGTTCAGGCTGGTGGTTTGATGCATGTCTTTCTGCAA
ACTTAAATGGCAAATATTATCACCAAAAATACAGAGGTGTCCGTAATGGGATTTTCTGGGGTACCTGGCCTGGTG
TAAGTGAGGCACACCCTGGTGGCTACAAGTCCTCCTTCAAAGAGGCTAAGATGATGATCAGACCCAAGCACTTTA
AGCCATAAATCACTCTGTTCATTCCTCCAGGTATTCGTTATCTAATAGGGCAATTAATTCCTTCAGCACTTTAGA
ATATGCCTTGTTTCATATTTTTCATAGCTAAAAAATGATGTCTGACGGCTAGGTTCTTATGCTACACAGCATTTG
AAATAAAGCTGAAAAACAATGCATTTTAAAGGAGTCCTTTGTTGTTATGCTGTTATCCAATGAACACTTGCAAGC
AATTAGCAATATTGAGAATTATACATTAGATTTACAATTCTTTTAATTTCTATTGAAACTTTTTCTATTGCTTGT
ATTACTTGCTGTATTTAAAAAATAATTGTTGGCTGGGTGTGGTAGCTCACGCCTGTAATCCCAGCACTTTGGAAT
GTCAAGGCAGGCAGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAAACATGTGAAACGCTGTCTCTATT
AAAAATACAAAAATTAGCCGGGCATGGTGGTACATGCCTGTAATCCTAGCTACTTGGGAGGCTGAGGCAGGAGAA
TCGCTTGAACCTGAGAGGAAGAGGTTGCAGTGAGCCAAGACTGAGCCACTGCACTCCAGCATGGGTGACAGAGAA
AACTCTGTCTCAAACAAAAAATAATAAAATTTATTCAGTAGGCTGGATTCTACACAAAGTAATCTGTATTTGGG
CCATGATTTAAGCACATCTGAAGGTATATCACTCTTTTCAGGCTATAATTATTTGGGTAATCTTCATTCTGAGAC
AAACTTAATCTATATCATTTACTTTGCAACAGAACAACCCTACAGCATTTTGGTTCCCAGACTAAGGGAACTAAT
ATCTATATAATTAAACTTGTTCATTTATCATTCATGAAATATAAAATACTTGTCATTTAAACCGTTTAAAAATGT
GGTAGCATAATGTCACCCCAAAAAGCATTCAGAAAGCAATGTAACTGTGAAGACCAGGGTTTAAAGGTAATTCAT
TTATAGTTTATAACTCCTTAGATGTTTGATGTTGAAAACTGCTTTAACATGAAAATTATCTTCCTCTGCTCTGTG
TGAACAATAGCTTTTAATTTAAGATTGCTCACTACTGTACTAGACTACTGGTAGGTTTTTTTGGGGGGGGTGGGT
AGGGATATGTGGGTAATGAAGCATTTACTTACAGGCTATCATACTCTGAGGCCAATTTTATCTCCAAAGCAATAA
TATCATTAAGTGATTCACTTCATAGAAGGCTAAGTTTCTCTAGGACAGATAGAAAACATGAATTTTGAAATATAT
AGAACAGTAGTTAAAATACTATATATTTCAACCCTGGCTGGTAGATTGCTTATTTTACTATCAGAAACTAAAAGA
TAGATTTTTACCCAAACAGAAGTATCTGTAATTTTTATAATTCATCAATTCTGGAATGCTATATATAATATTTAA
AAGACTTTTTAAATGTGTTTAATTTCATCATCGTAAAAAGGGATCATCTCAGAGAGAACAGCAGTATTCTGCGTA
TTTTTAAAAATGCTCTAGAGTAACATTTGAAGTAATTCACTGTAGTGTATGCCAGTCCTAGAAATAATTTTTTTA
ATTTCTGGTGTCTGTTTCTAATACACTAACCAAGTTTTCAAAATATATTTACAAAGATGCATCTTTACCCATTAT
TTTAAAATGATTAAGGAGGATAGTTGCTTCAGGTAACAAGCTAATTTTTCAAATATTAGGCCCTTACAGAACTAT
TTAGTCAAAAAGTAAGATATTCCTTTAAAATATATAACCCAAAGCTTTCAGTTAAACATGATATATCACAAATAC
TATTAAAATGTTAAAGAGAAATGCAAATAGCATTAAATGATGACCAAAATGTAAAATATTGTAGATTTCAAAAGC
TGTGTCTCTATTAGGTGGGATACCAAATGTAAATGATGTAACTGACGTTGTTTTTTACTTTTTACTTTTTAAAAA
AGACTAAAAACGTTTTGATATTATACAATGTATTTGTTTCAGATAAGGTCATTGTCATTTAGTATATATAATTAA
TATATGTACAAGTTTAAGTAAATTCCTGTGAGTAAAAATGGACTTATCACAAAACATAGTTCTAAAGAAAGGTAT
ATGCTCATATACACGGTGTCCATTAATTTAATGGGAACTAGGTATAACTTCAGGAGAATTTGGCAAATAATTCAT
TAATCCATGTAAATATTCAAAAGCTTGTTCTATCCACATTATTTCAAGGGATCACTTTATTTTTCATTATACTTT
CACAGCACTTTTCTAGTAAATTCTGTAACACAGAAATTCCATTTTGGAATCATTTCATGTTACCAATAATTCTAG
ACTTTTATAACATTTAACATGTTGATGGAAATAGATTACATCTGCTAGAACCTTTTGCCTTAACTATTCACCAAT
ATATGCTAATATTCATAAATATGGATTGACTGTTTACAAACATTAGAATCTTGTCTTGGTTCCATTTTGATGGCT
AATATTTGTTATCTTAATTAAGACTATTTCTGAGGTCATGATTACTTGAAAATATTGACTAAAACTGGGTCCTTA
GAAATTCCAGGTGGAGCTGATTTACCTATGACTGAGGGGAAAAAAAAATCAAATTTTACTGATAATAGTAATGCT
CCAAATGAATTAATGACACATCTGTTCAATAAATAAAGAGCTTAAATATACAAAACATAAGAAATCTGGGCAACA
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FIGURE 1739B

AAACTTGTGGTCTTTACTTTTGAATAGCTACCCAAGAAAAGGTTTTAAAGGTAAAAGTTATGAGTAATGTCATCA
CAATAAGCTCTTGTTTAAAATTCTTTTCTTTTATGTATAATTAGGTTTATGTTTCATGTCTTTTTAAAACCTTAT
AAAAGATTTAATTATCACATCTATTCTTCAATGTGGAAATATTAAATATTGTTGGTTGTAAAATAATATTTATGT
ACTTACTTGTGTCTGAAAAGTTGTAAAATGCTTACCTCAGCTATACAATATCTGTGACTCTGAAGACTTTAATGA
GTACTATTTCATTAACAAGAAGTCAGAGGCAAATAGAGGAACACCATTATCTTACTTCCCTCTAGAATACTGTTG
AAACATTTGAAATACAAAAGTTTCAGTTTCATTTTGTGGCATTCAACTTCCTCTCCTCTTTTTCCGTTATTAGTG
TTGCTGCTCTGGTTAGCC

FIGURE 1740

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCATTGAAGGTATTATTTATTTGCAGCTCATCTTAAGTGACA
AAATTCCATACAGAAGACTATAACAGAAATCATATTTAATATATTAAAATTAATACTTCAAATATCTTTCACATT
AAGATGATTATCTATTGTGTAAATCTTTCCTAGGTATGTGTGTCTGTTTCTTGATGTGTAAACCAAAACTCTGAA
ATATTCTCTTGATCTAACTTTGACTTTTAAAAACTGACATTGTATTGAATTTACATAATTCTCAATCAGAAAAAA
AATTACTGTCAGACTGCAATGCAAGTCTGCCCCAATGAAGGCAGGAGGAGGGATGGCTGGAAGTGTCTCAGGGCA
CTCTGAAAGTTTAGCAAGCTTATCAAGGAGTCCTCAAACTAAAGCTGGCCAAAAACTTCAGCATAAAAACTATCC
TGTCTGTGTATTATATATATTTATTACCAAATTTAATAAACAAAAACCACTTTTGAACCAGGTAATTTTATCTAG
TGTGAAAAGAAATTAATCACATGGTCATATACTGGCTAGTGCTCTCTAAAAGTAGACATTAAAATATTTCATAAT
TGGAGGGAATCTTTGGAGATTAGTGGCATCTAATCTTGGGGCCTCAGACACCCAAAATCTATATATTGACCAGTG
GAAGTTGATGATTTGTTATCAAATTTCAAAGCACCTAATGGAAACCCCACTTCATCTCTGTGAAGATTTTCAGTT
CCTTTACAGTTATTTGAAATTATTTCAATTCTGTGGAGCCACTTCAGAAACTCCAATGGGCCTTTGCAATATTAA
AATGTGGAGAATGCATTAATCATTATTTAATCAATGAGTTTAAAAAATAGACAAAAGCTTCTGAAACATGGGACT
GAAGTAGGCGGAGCATTATAAAAGCCTAAGGTAATTGGTAGTGAAGAGTTGGAAAAACTTACTTAGTCTAATATT
GTAATTTACAGATAAGGAAACTGAGAAGATAAATAATTTATTCAATATCACTCGATGGTTCATTAGTAGAAGAGC
CAGCATTATGATGTACTCATTTTGTACTCTAGGAGTTGTTAAAAGGCACTTAATATCTTCTTTTCTTGGGTGTTA
GCATTTTTCATTTTTTAAATCATGCTATTTAGTGTTCTTAACATTTGAAACCCAAATGGTTCACATTTTGTTTTT
GGATTGCTTTGGGAATGAGTATGTACTGTTAGAGAAGGGCCCAATCCAAACACTAGAATTTTAATAATTTCTACT
CCCTCTGCTGGCCAACTTTCCAGTAAATGGATTTTAAAAAAAGAGAAAAAAAAATCTAGCGGTAATTGAAACAA
AAACAAAAACTTTAAAAAGTGTCTTCATTATAAAGAGGTGCCATGCATAAAAGCCTAGGTAGTTTCAAGGTCCAT
TCTTCCATTCCTCATGATTTTAGGGTTATCCTCATTCAGATCTACTCTAGTTATAATAGTACTTTAAACAGAGCA
CAGAATTAAACCATTAGTATGTGAATCTGCAAAAAGAGAACTTGTTTTAGACTCTTCTACAGTTAGACTTCAAT
GTGCATACTAAATGCATAACATTCGTATCAAATAATTAACATTTATATACAATTAACAAATAAGGACAAATTTTA
TACAAAACTTCTACTACTGCTATAATTTTTGAAAACATTTAACCCACTAGCAAGAGGTAAGACAGCACTGCCTTT
TTAAAAGACAGGTCACTTGAATAGAGAATATAAGATATAACCATAAGTAGGAGTATAAACAATAATTTTTCTTCT
TGTGGAATGTTTTTAAATTTCCTTTCTTATATTATTATTCTTCCTTAGGTTTTTTTAGACAGGTCATTTCTTCCT
GAATGATTTTCCTTTTTCTTTTATTTTTATTTTTTGAAGGAGGATTATTTACTGGTGGTCTAAAAGAAGTACCTT
CAACTTCTTCATAATTGTAGCCAAAGCGGAAATGGAATATTTAATAATTC

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FIGURE 1741

MKAGGGMAGSVSGHSESLASLSRSPQTKAGQKLQHKNYPVCVLYIFITKFNKQKPLLNQVILSSVKRN

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FIGURE 1742

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GCTGTGAGTTGGCGTGCTAGTGGGATGGCAGATGAGGAAGAAGACCCCACGTTTGAGGAAGAAAATGAAGAAATT
GGAGGAGGTGCAGAAGGTGGACAGGGTAAAAGAAAGAGACTTTTTTCTAAAGAATTGCGATGTATGATGTATGGC
TTTGGGGATGACCAGAATCCTTATACTGAGTCAGTGGATATTCTTGAAGATCTTGTCATAGAGTTTATCACTGAA
ATGACTCACAAGGCAATGTCAATTGGAAGACAAGGTCGAGTACAAGTTGAAGATATCGTCTTCTTGATTCGAAAG
GACCCAAGGAAGTTTGCCAGGGTTAAAGACTTGCTTACTATGAATGAAGAATTGAAACGAGCTAGAAAAGCATTT
GATGAAGCAAATTATGGATCTTGACACTTTTTGTAGTTTCCGAAAATTACCATCTGGGGAAACCATATATAATAA
TTGTATATTTTCTAAAGTAAGATTCTGATATCTAGCCGAGATCGCACCACTGCACTCCAGCCTGGGCGACAGAGC
GAGACTCCGTCTCAAAAAAAAAAAAGAAAGCAAGTTTCACATGAATAATGCTGTGTTGGAAGGCTTTTTGATTTA
AAATCTTTTCGGATTTATAACATCCTGTTAAGTTTTAGGAGAACCCGTTTTCCCAGAGCAGATTCAAGCTTCTAA
AAATAAATGCTTTCAGTAGCAGGAATGGCATTGTTTAAAAAGCTGATGGCAGGGTAAGCATTTGGGTTAGTGTTT
TATTAACATATTTGTAAGTACTTGTTCATTGTGGAAATGTGTCCTTGACTAAAACCATACGTGGCTATGGAAACC
ATGTTTGTAGTTCTGAATACACAGGTTTTGTGTGTATTTACTCTATGTATTAAATTATTATTGCCCTTAGTTTAA
AGTAAGGATTACAATTGGATTTAAGTAGATCACTGAATGTTATTGTTTATGAAACTTAACTTTTTGTATGCTGCT
TATAAACATGATCTATAAATCAGTGCTTGGGAAAATTTTACTTTCTTAATCTACTGATACAGGAATAAAATATGA
ACAATTAAACAGATAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1743

MADEEEDPTFEEENEEIGGGAEGGQGKRKRLFSKELRCMMYGFGDDQNPYTESVDILEDLVIEFITEMTHKAMSI
GRQGRVQVEDIVFLIRKDPRKFARVKDLLTMNEELKRARKAFDEANYGS

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FIGURE 1744

GGCACGAGGGGGCGGCGGGTCACGTCGGCCGGGCATGGCTGCATGGAGCCCGGCCGCGGCAGCGCCTCTCCTCCG
CGGGATCCGCGGGCTTCCACTTCACCATCGGATGTTTGCCACTCAGACTGAGGGGGAGCTCAGAGTGACCCAAAT
TCTCAAAGAAAAGTTTCCACGAGCTACAGCTATAAAAGTCACTGACATTTCAGGCACTAAAAGAAGAAATCAAAG
AGATGCATGGATTGCGGATATTTACCTCTGTCCCCAAACGCTGACCACGCCCTGGCTGCATAGATGCTGCTGCTT
AAGACCTTGGATGAACTTCACTGACATCATTCTTCCC**TAA**GCAGTCACCAAAAAATTTATATATTTTGCTCATAT
ACATTTCCATATTATAATTATAGAAGATGTATAATCTATTTAGATGTTAATTAAAGGAAACAAACAACTGAAGCT
TTTGAAGGGCC

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FIGURE 1745

ARGGGGSRRPGMAAWSPAAAAPLLRGIRGLPLHHRMFATQTEGELRVTQILKEKFPRATAIKVTDISGTKRRNQR
DAWIADIYLCPQTLTTPWLHRCCCLRPWMNFTDIILP

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FIGURE 1746

GTGAGCGGCAAC**ATG**GCGTCCAGGTCTAAGCGGCGTGCCGTGGAAAGTGGGGTTCCGCAGCCGCCGGATCCCCCA
GTCCAGCGCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGGAAAAG
GATGAAGAGGACGAGGTCATTGACGAGGAAGTGAATATTGAATTTGAAGCTTATTCCCTATCAGATAATGATTAT
GACGGAATTAAGAAATTACTGCAGCAGCTTTTTCTAAAGGCTCCTGTGAACACTGCAGAACTAACAGATCTCTTA
ATTCAACAGAACCATATTGGGAGTGTGATTAAGCAAACGGATGTTTCAGAAGACAGCAATGATGATATGGATGAA
GATGAGGTTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGGTACCCAGTGTGTTGAACAAATTCAA
GAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATGGTTGAACAGCTGGACAAGTTTTTAAATGAC
ACCACCAAGCCTGTGGGCCTTCTCCTAAGTGAAAGATTCATTAATGTCCCTCCACAGATCGCTCTGCCCATGTAC
CAGCAGCTTCAGAAAGAACTGGCGGGGGGCACACAGAACCAATAAGCCATGTGGGAAGTGCTACTTTTACCTTCTG
ATTAGTAAGACATTTGTGGAAGCAGGAAAAAACAATTCCAAAAAGAAACCTAGCAACAAAAAGAAAGCTGCGTTA
ATGTTTGCAAATGCAGAGGAAGAATTTTTCTATGAGAAGGCAATTCTCAAGTTCAACTACTCAGTGCAGGAGGAG
AGCGACACTTGTCTGGGAGGCAAATGGTCTTTTGATGACGTACCAATGACGCCCTTGCGAACTGTGATGTTAATT
CCAGGCGACAAGATGAACGAAATCATGGATAAACTGAAAGAATATCTATCTGTCTAACCCATTTCCAATGGACAG
TGATGGGCTTGTTTTTGTAAAATTACCAGAAAACTCAGTGGAGATTTACTGAAAAACTCAGACTTTATTCAGATT
AAGTTCCTCTACAAAAAGTAGGGTTCTGTCCCATGTGTCTCTGACACATTTACAAAATACCAGTTTTTTAAAATT
TTGGTCAAATTATGAGTGGTTGATTTAAAAACTTTTCCAAGAAGAAGAAAAGCATGGAGTCGTAATTTAAAGAAC
TCAATAAAAACTTCTATTTTTTATTTTAAAATAATACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1747

MASRSKRRAVESGVPQPPDPPVQRDEEEEKEVENEDEDDDDSDKEKDEEDEVIDEEVNIEFEAYSLSDNDYDGIK
KLLQQLFLKAPVNTAELTDLLIQQNHIGSVIKQTDVSEDSNDDMDEDEVFGFISLLNLTERKGTQCVEQIQELVL
RFCEKNCEKSMVEQLDKFLNDTTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTNKPCGKCYFYLLISKT
FVEAGKNNSKKKPSNKKKAALMFANAEEEFFYEEQGKPEVLGGPDTRRGLEPVPIQHNGWSVPPVLE

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FIGURE 1748

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ATGGCCGACTTCGATGATCGTGTGTCGGATGAGGAGAAGGTACGCATAGCTGCTAAATTCATCACTCATGCACCC
CCAGGGGAATTTAATGAAGTATTCAATGACGTTCGGCTACTACTTAATAATGACAATCTCCTCAGGGAAGGGGCA
GCACATGCATTTGCCCAGTATAACATGGATCAGTTCACGCCTGTGAAGATAGAAGGATATGAAGATCAGGTCTTA
ATTACAGAGCACGGTGACCTGGGTAATAGCAGATTTTTAGATCCAAGAAACAAAATTTCCTTTAAATTTGACCAC
TTACGGAAAGAAGCAAGTGACCCCCAGCCAGAAGAAGCAGATGGAGGTCTGAAGTCTTGGAGAGAATCCTGTGAC
AGTGCTTTAAGAGCCTATGTGAAAGACCATTATTCCAACGGCTTCTGTACTGTTTATGCTAAAACTATCGATGGG
CAACAGACTATTATTGCATGTATTGAAAGCCACCAGTTTCAGCCTAAAAACTTCTGGAATGGTCGTTGGAGATCA
GAGTGGAAGTTCACCATCACACCACCTACAGCCCAGGTGGTTGGCGTGCTTAAGATTCAGGTTCACTATTATGAA
GATGGCAATGTTCAGTTGGTTAGTCATAAAGATGTACAGGATTCACTAACTGTTTCGAATGAAGCCCAAACTGCC
AAGGAGTTTATTAAAAATCATAGAGAATGCAGAAAATGAGTATCAGACAGCAATTAGTGAAAACTATCAAACAATG
TCAGATACCACATTCAAGGCCTTGCGCCGCCAGCTTCCAGTTACCCGCACCAAAATCGACTGGAACAAGATACTC
AGCTACAAGATTGGCAAAGAAATGCAGAATGCTTAAAGGCTGAATGTAGGATTCTTCAGTATGTGGAAAGACAAG
GATTCAACGTGTGGTCATATGATAAATAAGTGATTTATAAACAAGAGTGATATTTTGCTAGGGCTTTCAAAGTTA
ACCGGTTTTCTAGCCTCATGGAATACTGTTGAACCTATAGCGTTGTCTTGATTCTTTTGTGTTCTCTGCCTTGTA
ATTTTCTGTTACTGCTATATCTACGTGTAAATCTTTTTTTCTTTTTTTTTTTTTTTTTTTTTCTTTTTTGGTTAA
TTCTGCCACATTTAATGTTGGTGAGAGAGTGATCTATCCTAATGACATTTACTGTTTAAAAAAGTTTCCTAGCCA
TGAAGCCCTGCTACTGATTTAGACAAGGTATTATGGTCATTACTTTGTACCCCTATCCTTCCAAGCACTTCTGGT
ACTTCAGTCGTTTTTACTGATCCACCAACACCTAAAGAGGCTATGCTACAGTCTCTAGCTAAATGGAAGACACAT
TCATCCTTCTCCCTCTGACTGCTTTGATCATCATTTATTGCATCGTCATATCATATTTATCGCATCTCATAACTA
ACTTTCTAAAGTTTGGATTGGGACTTTTCAGGTCCTTTTTGGAGGGCAAAGGAAGTTCCAGCTTCTCTGGGGAAC
TTGTTTTTAAATCCAAAGACTTGAACCACATTCCCTGCACATGAACATGTTTGCTTTTATCCCTTCTCTCATTGG
CTCCTTCCCATCTTAGTACCATTGTAGTTATACATCTGCATTTTTTAGAAGCATTTTACCCATTTATTTTTTTAA
ACATTCAAGAACTGCTGACGTACTGTGGATGTAGAGTATAAAACTTGAAAAATGCAGATGTTGAAGGAATAATAG
GTATCTTGTGCTTTAATACTTTATGGCAGGATTGTACTATAAGCAAATGAATTAAACAGCTATGTAAATCATAAA
GAAAAACTAAAAATGAACCAAAGTGAAAGGATAACTTCCAGGCAGTATCTTTCTATTGTAACCTGTTATTTAAGG
AAATACTAGTGATTTCTTCTAAATAGGATGTAAACTTCTTTCAAATTACTCTTCCTCAGTCTGCCTGCCAAGAAC
TCAAGTGTAACTGTGATAAAATAACCTTTCCCAGGTATATTCGGCAGGTATGTGTGTAATCTCAGAATACACAGG
TGACATAGATATGATATGACAACTGGTAATGGTGGATTCATTTACATTGTTTACACTTCTATGACCAGGCCTTAA
GGGAAGGTCAGTTTTTTAAAAAAACCAAGTAGTGTCTTCCTACCTATCTCCAGATACATGTCAAAAAGAAAAGGTG
TTTGTGCTCCGTTTTGTTTCTGCTCAGTAATATAGTCAAGCAAGTTGTTCCAGGTGACCCATTGAGCTGTGTAT
GCATTTTTGTTTATTTCAATAAAATATATTTGTATTATTTGTCCTTCATACTATCCATCCATACCACACTATCTT
CTGTATCAGGTAGTCTAATAGAAATATACCTGTTTTGTTCTAAAAAAAAAAAAAAAAAAAA
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FIGURE 1749

MADFDDRVSDEEKVRIAAKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNMDQFTPVKIEGYEDQVL
ITEHGDLGNSRFLDPRNKISFKFDHLRKEASDPQPEEADGGLKSWRESCDSALRAYVKDHYSNGFCTVYAKTIDG
QQTIIACIESHQFQPKNFWNGRWRSEWKFTITPPTAQVVGVLKIQVHYYEDGNVQLVSHKDVQDSLTVSNEAQTA
KEFIKIIENAENEYQTAISENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

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FIGURE 1750

GCAGTGATATAAATATATTTTTTTCTTAGACTAAATATGAGCTGACTATCTCTTTTG**ATG**TGTGTACATAGGTGT
GAGTGTGTGTGTATGCGTGCCTGTCTGTGTGCGGGTGTGTGTATGTGCATAGCCTCATGCTTAGGACTACCCATG
AATGTTGTGGAATGCTACACCTGGAGAGTTCTGGTTTTCCACCAGTTTCAAGATGAAGAACTACATGATACAGTG
GACCTGGAGACCATCCCCTTGGAAAGACAACCCAGAGATGTTCAGCATCCTGTATCTACACGCATCCTGTATCTA
CACGTGTATTTTGTAGCTGTCACACTAACCTTAATAAGAATTCTACAGCTTTGGACAGAGGCATTTTCACCT**TAA**

TGGTGAAGTAATTTAAAATATAAATCCATTCAGGTGACAACCCATCATCAAAATTACAAATTTTCTGATTGAACT
CATCTGAATCATCAGTTCCTTGATGGAGAGAGAGAAGGAGATGGAATGTGTCTGGTAACCCCAAATGGAGTACAA
GTAGCCTTTGTTTTCCTGCATAAATGGACTTGTTGAATGCGAACGAATATATGCAATTCATATACTTTTGGAGAT
GAACGTAGATATGTGTGTCAGCTTTGAGATGGTGTGTCCTGGATTAATACTTTGTCTCCCAATATCACAGAAAAA
TACATGCCAGTGACTCTTGAGGTTAAGGTAGTTGGGATGAAATGGCCTCAGGCAATTTCACATTCCCTAATTACC
TGGAAAGTTCTACAGTAATTAATATGCAGCTAACTCCTGTTGCCCTCACAAGAGCATCAGCCTTCTAGAATCGGA
GCTCCGGAGTGTGAAGATTCAGTATTGATATGATATGTATACCAAACTCCAGCCAACTTACTGCCATTTTTCATA
ATCTGAGTGGCTGCCTTGCTTATCCTAAGCTGTGGTTGCAGAAACCGTGGCCATTTATATAAGCTATAACATCAA
ATCAGGGAAAAATGAGGAAAAAAAATAGATTCTGAACCATTTATTGTTGAATAAGTAGAGAAAATCATCAATAAA
TATTTATTACATTCTGACAGGGTGTGTGGCATTGTGTTCTATGCCAGAGTGACAAAGTTGATTCACCCCTTTTTG
GGGACCTTAATATATTTTTTAAGGGATGTGCCTATGCATTGATGCCTGAAAAATATGTATAAAGAAATGAGGTTG
ACTCTTCTGAGCAGTTCATCTTTTCCAGAGGTAAGGGTAGGAGGCCAACTTCAGGATCTGGGTCTAAGCCCGTGG
GCAAGCCCTGGCCGAGTGAGCTCCAATGCTAACTCATGTGCCGATCTCTAGAGCAGTGGGAAACTACCCCGCTGC
ACCAAATCAAGTAGCTTCACCTTGTGTATGCAGGCCCCAAGTTATTTTTTAGCAATCTTACGAGTGAAATGTTCT
GGTGGGTTGAAAAACGTTCTTATTTTAAAGAAAGGTTGTGCTCGCTACACTGCTGGTGTGTGCGTTCTGAGACCT
CTTGTATTCAATCTGTGAAGGATATGTGTATTAATCCGTACACCGTATAGCCTCAATATTTGTCTGAAGACACT
TAAATTCTGACCCATAAAGGAAAGTTCTAGAAGCAATATTTTCACTTATTTAACATTCTCCAAACAACATCAAGC
ATTGATACACACTGAAGAGTGCGTTTATTTTTTGTATCACTCTAAGTATGTTGGAATATGCAAGGACTGTGGTTC
AAATTAGAATGTATAAGGCATATTATAATTTAGTTCATACTGAAAAAGAAATTAACAGAACATTGTTCGGTTCAC
ACGTTCCAAAATTTGAGTGATTTCTGGAGTTAGACATAGATTTTCTATTTTGTTTTAATTTGTCAAGGTATTTTT
CTTCCCTTCATGAACTTTAGGTACACATAACTTATGTCATTTATTTATGGTCTTTTATACCTAGTTTGTAAAATT
GTAAAATAGCAAACTAAATGCAAAGAGTTTGCATTTGAAAATAATAAAGTAGTTACCGTATACAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1751

MCVHRCECVCMRACLCAGVCMCIASCLGLPMNVVECYTWRVLVFHQFQDEELHDTVDLETIPLERQPRDVQHPVS
TRILYLHVYFVAVTLTLIRILQLWTEAFSP

FIGURE 1752A

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CTCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTCCAGAAAGATGAGGATATTTGCTGTCTTT
ATATTCATGACCTACTGGCATTTGCTGAACGCATTTACTGTCACGGTTCCCAAGGACCTATATGTGGTAGAGTAT
GGTAGCAATATGACAATTGAATGCAAATTCCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATTGTCTATTGG
GAAATGGAGGATAAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTCAGCATAGTAGCTACAGA
CAGAGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATCACAGATGTGAAATTGCAG
GATGCAGGGGTGTACCGCTGCATGATCAGCTATGGTGGTGCCGACTACAAGCGAATTACTGTGAAAGTCAATGCC
CCATACAACAAAATCAACCAAAGAATTTTGGTTGTGGATCCAGTCACCTCTGAACATGAACTGACATGTCAGGCT
GAGGGCTACCCCAAGGCCGAAGTCATCTGGACAAGCAGTGACCATCAAGTCCTGAGTGGTAAGACCACCACCACC
AATTCCAAGAGAGAGGAGAAGCTTTTCAATGTGACCAGCACACTGAGAATCAACACAACAACTAATGAGATTTTC
TACTGCACTTTTAGGAGATTAGATCCTGAGGAAAACCATACAGCTGAATTGGTCATCCCAGAACTACCTCTGGCA
CATCCTCCAAATGAAAGGACTCACTTGGTAATTCTGGGAGCCATCTTATTATGCCTTGGTGTAGCACTGACATTC
ATCTTCCGTTTAAGAAAAGGGAGAATGATGGATGTGAAAAAATGTGGCATCCAAGATACAAACTCAAAGAAGCAA
AGTGATACACATTTGGAGGAGACGTAATCCAGCATTGGAACTTCTGATCTTCAAGCAGGGATTCTCAACCTGTGG
TTTAGGGGTTCATCGGGGCTGAGCGTGACAAGAGGAAGGAATGGACCCGTGGGATGCAGGCAATGTGGGACTTAA
AAGGCCCAAGCACTGAAAATGGAACCTGGCGAAAGCAGAGGAGGAGAATGAAGAAAGATGGAGTCAAACAGGGAG
CCTGGAGGGAGACCTTGATACTTTCAAATGCCTGAGGGGCTCATCGACGCCTGTGACAGGGAGAAAGGATACTTC
TGAACAAGGAGCCTCCAAGCAAATCATCCATTGCTCATCCTAGGAAGACGGGTTGAGAATCCCTAATTTGAGGGT
CAGTTCCTGCAGAAGTGCCCTTTGCCTCCACTCAATGCCTCAATTTCTTTTCTGCATGACTGAGAGTCTCAGTGT
TGGAACGGGACAGTATTTATGTATGAGTTTTTCCTATTTATTTTGAGTCTGTGAGGTCTTCTTGTCATGTGAGTG
TGGTTGTGAATGATTTCTTTTGAAGATATATTGTAGTAGATGTTACAATTTTGTCGCCAAACTAAACTTGCTGCT
TAATGATTTGCTCACATCTAGTAAAACATGGAGTATTTGTAAGGTGCTTGGTCTCCTCTATAACTACAAGTATAC
ATTGGAAGCATAAAGATCAAACCGTTGGTTGCATAGGATGTCACCTTTATTTAACCCATTAATACTCTGGTTGAC
CTAATCTTATTCTCAGACCTCAAGTGTCTGTGCAGTATCTGTTCCATTTAAATATCAGCTTTACAATTATGTGGT
AGCCTACACACATAATCTCATTTCATCGCTGTAACCACCCTGTTGTGATAACCACTATTATTTTACCCATCGTAC
AGCTGAGGAAGCAAACAGATTAAGTAACTTGCCCAAACCAGTAAATAGCAGACCTCAGACTGCCACCCACTGTCC
TTTTATAATACAATTTACAGCTATATTTTACTTTAAGCAATTCTTTTATTCAAAAACCATTTATTAAGTGCCCTT
GCAATATCAATCGCTGTGCCAGGGCATTGAATCTACAGATGTGAGGCAAGACAAAGTACCTGTCCTCAAGGAGCT
CATAGTATAATGAGGAGATTAACAAGAAAATGTATTATTACAATTTAGTCCAGTGTCATAGCATAAGGATGATGC
GAGGGGAAAACCCGAGCAGTGTTGCCAAGAGGAGGAAATAGGCCAATGTGGTCTGGGACGGTTGGATATACTTAA
ACATCTTAATAATCAGAGTAATTTTCATTTACAAAGAGAGGTCGGTACTTAAAATAACCCTGAAAAATAACACTG
GAATTCCTTTTCTAGCATTATATTTATTCCTGATTTGCCTTTGCCATATAATCTAATGCTTGTTTATATAGTGTC
TGGTATTGTTAACAGTTCTGTCTTTTCTATTTAAATGCCACTAAATTTTAAATTCATACCTTTCCATGATTCAA
AATTCAAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCCTCCAAGCCATTCAAGTTTCCTTTCCAG
AAGCAACTGCTACTGCCTTTCATTCATATGTTCTTCTAAAGATAGTCTACATTTGGAAATGTATGTTAAAAGCAC
GTATTTTTAAAATTTTTTTCCTAAATAGTAACACATTGTATGTCTGCTGTGTACTTTGCTATTTTTATTTATTTT
AGTGTTTCTTATATAGCAGATGGAATGAATTTGAAGTTCCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAG
TTATCTTTCCCATAGCTTTTCATTATCTTTCATATGATCCAGTATATGTTAAATATGTCCTACATATACATTTAG
ACAACCACCATTTGTTAAGTATTTGCTCTAGGACAGAGTTTGGATTTGTTTATGTTTGCTCAAAAGGAGACCCAT
GGGCTCTCCAGGGTGCACTGAGTCAATCTAGTCCTAAAAAGCAATCTTATTATTAACTCTGTATGACAGAATCAT
GTCTGGAACTTTTGTTTTCTGCTTTCTGTCAAGTATAAACTTCACTTTGATGCTGTACTTGCAAAATCACATTTT
CTTTCTGGAAATTCCGGCAGTGTACCTTGACTGCTAGCTACCCTGTGCCAGAAAAGCCTCATTCGTTGTGCTTGA
ACCCTTGAATGCCACCAGCTGTCATCACTACACAGCCCTCCTAAGAGGCTTCCTGGAGGTTTCGAGATTCAGATG
CCCTGGGAGATCCCAGAGTTTCCTTTCCCTCTTGGCCATATTCTGGTGTCAATGACAAGGAGTACCTTGGCTTTG
CCACATGTCAAGGCTGAAGAAACAGTGTCTCCAACAGAGCTCCTTGTGTTATCTGTTTGTACATGTGCATTTGTA
CAGTAATTGGTGTGACAGTGTTCTTTGTGTGAATTACAGGCAAGAATTGTGGCTGAGCAAGGCACATAGTCTACT
CAGTCTATTCCTAAGTCCTAACTCCTCCTTGTGGTGTTGGATTTGTAAGGCACTTTATCCCTTTTGTCTCATGTT
TCATCGTAAATGGCATAGGCAGAGATGATACCTAATTCTGCATTTGATTGTCACTTTTGTACCTGCATTAATTT
AATAAAATATTCTTATTTATTTTGTTACTTGGTACACCAGCATGTCCATTTTCTTGTTTATTTTGTGTTTAATAA
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FIGURE 1752B

AATGTTCAGTTTAACATCCCAGTGGAGAAAGTTAAAAAA

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FIGURE 1753

LEAPHQPRFCPPAGHSRKMRIFAVFIFMTYWHLLNAFTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYW
EMEDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNA
PYNKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRINTTTNEIF
YCTFRRLDPEENHTAELVIPELPLAHPPNERTHLVILGAILLCLGVALTFIFRLRKGRMMDVKKCGIQDTNSKKQ
SDTHLEET

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FIGURE 1754

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GCGGGCGCGAGGCGGCGGCGGAGGCCCGAGCCCGGCCCAGCCTCGTCCCGCCCGGAGCCCGCCTGGCTGCTACCC
CGACCCCGGCTCCGGTCCCGTCCTGTCCCGGCGCGCCGCGGCCTCGCCCCGGCCCCCGCTCGGCGCCTCCCGAGG
GAGCGGCGCTGCCGGCCGAGAGCGCAGGCCCGGCCATGACCGACTTCAAATTGGGTATCGTGCGGCTCGGCCGGG
TGGCCGGGAAGACCAAATACACGCTGATCGATGAGCAGGACATCCCGCTGGTGGAGAGCTACTCCTTTGAGGCCC
GAATGGAAGTGGATGCAGATGGAAATGGTGCTAAGATATTTGCCTATGCCTTTGACAAGAACCGAGGAAGGGGCT
CTGGGAGACTCCTTCATGAGCTGCTGTGGGAGCGGCACCGGGGGGGCGTGGCCCCGGGCTTCCAGGTGGTGCACC
TCAACGCTGTGACCGTGGACAATCGCCTGGACAACCTGCAACTGGTGCCGTGGGGCTGGCGGCCCAAGGCTGAAG
AGACCTCCAGCAAGCAGAGGGAGCAAAGCTTGTATTGGCTTGCAATTCAGCAGCTGCCTACAGACCCTATAGAAG
AACAGTTTCCTGTCCTAAATGTGACCCGGTATTATAATGCCAACGGGGATGTAGTGGAAGAGGAGGAGAACTCTT
GCACCTACTATGAGTGCCACTACCCTCCCTGCACAGTGATTGAGAAGCAGCTCCGGGAGTTCAACATCTGTGGGC
GCTGCCAGGTGGCCCGGTACTGCGGCTCCCAGTGCCAGCAGAAGGACTGGCCTGCCCACAAGAAGCACTGTCGGG
AGAGGAAGCGTCCCTTCCAGCATGAGCTTGAGCCAGAGCGATGACGGGCAGGGGAGCCACACATACTCACAGCCC
CCGGGCTCTACCCTGGGCACAGCAGAGACAGACTGGTGGTTGAACCTGGAGGTGCCAAAAAAGCCAGCTGCGGGC
CCAGGACAGCTGCCGTGAGACTCCCGATGTCACAGGCAGTCTGTGTGGTTACAGCGCCCCTCAGTGTTCATCTCC
AGCAGAGACAACGGAGGAGGCTCCCACCAGGACGGTTCTCATTATTTATATGTTAATATGTTTGTAAACTCATGT
ACAGTTTTTTTTGGGGGGGGAGGCAATGGGAAGGGTAGAAATTACAAATAGAATCATTTGCAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1755

MTDFKLGIVRLGRVAGKTKYTLIDEQDIPLVESYSFEARMEVDADGNGAKIFAYAFDKNRGRGSGRLLHELLWER
HRGGVAPGFQVVHLNAVTVDNRLDNLQLVPWGWRPKAEETSSKQREQSLYWLAIQQLPTDPIEEQFPVLNVTRYY
NANGDVVEEEENSCTYYECHYPPCTVIEKQLREFNICGRCQVARYCGSQCQQKDWPAHKKHCRERKRPFQHELEP
ER

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FIGURE 1756

ATGAACTAATTTATTTAGGCTTAATCTCTAAAATTTCAGCCTGATCTTAACCAATGAAATTTCAAAAACAAAAAC
TGTACTTCAGTCTACAATTGAATGGAATTCAGTGTAGACCAGTACAATGGAATGTACTGGCTGAGATGGGAGGGT
CCCTTGAGCCCAGGAGTTGGAGGCTGTAGTGAGCTGTGATGGTGTCTGTGAATAGTGACGGCACTCAAGCCTAGG
TGACATAGCAAGATGCCATCTCAAAGAAATATAGATATATAACATAAAATAAATAACTTTATACATTTCCTGGAG
GAAAAGTACTCTGTAAATTCAAGAGATCTGAATCAAATTACTCAACCTTTTGGAATTTGATCCTCTACTGTAATA
CTCATATGCTAGATTACTGAATTTTCAGAGTGAAAAAAAATTGACAGGGTAATATATAGGCCATATTATAGTGAA
GATCATAAGTATAAATGTCCTCGTTTAATCTTTCCATATTGAGGACAGCCTCTGCATATAAAAATGTTCATTGGG
AGAAAAATTATTTTTAAAACTAAATTTTTATAGTAGTCCTCCATTACTGGCAATTAAGGAGCAACCCACAAAATG
TCATTATGTGGTTCTTTGATTAGGCATAAAAAGTATTGCAAACAGCTTTTCTATTCCTTTGGAATATGAATCTTT
TTAATGTCTAAAGTTAACCTGCAACATTTTCTAGTAGGACAAGTCAATGTAAATTAGGTAATTTTTGCCTGTTTT
ATACCTTCTGTTGCATTTTGTTCAAATGAAAACATTTTTTAAAACATGATTGAATTTTTACTTCTCAGATAATTG
GTTTGAGTGTGGAATTTCTTTTTTAACACTTTGATATGTAAGTTAGTGTAAATTAATACTTTTATAACACTACTA
GGCTTTATATTTTTATGGAATGTTTTAAAATTTGAAATTTTTGAAGTGTTAATTTAGCAGTACTTTATCATTATG
TGCCAATACTGACAAGAAAAACAATTTTTTATGTATTTAATATACT<u>ATG</u>GTATTCAATAAATTCTATTTTAAAAT

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FIGURE 1757

MVFNKFYFK

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FIGURE 1758

TTTTTTTTCATTAAAAAAATAGTGCTCTTTATTATAAATTACTGAAATGTTTCTTTTCTGAATATAAATATAAATA
TGTGCAAAGTTTGACTTGGATTGGGATTTTGTTGAGTTCTTCAAGCATCTCCTAATAGCCTCAAGGGCCTGAGTA
GGGGGGGAGGAGAGAGGACTGGAGGTGGAATCTTTATAAAAGACAGAGTGATTGAGGCAGATTGTAAACATTATTA
AAAAACAAGAAACAAACAAAAAAATAGAGAAAAAAACCACCCCAACACACAACTGCCCTGTCCAGCCCAATACCT
GACACAGAATACTTTGTGTTTGTTTAGTTGCCCCCCCCCACATAA

FIGURE 1759

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AAAAAAAAAAAAAAAAACCGGCTCGCGGCGCGTGGAGGCTGCTCCCAGCCGCGCGCGAGTCAGACTCGGGTGGGGG
TCCCGGCGGCGGTAGCGGCGGCGGCGGTGCGAGCATGTCGTGGCTCTTCGGCATTAACAAGGGCCCCAAGGGTGA
AGGCGCGGGGCCGCCGCCGCCTTTGCCGCCCGCGCAGCCCGGGGCCGAGGGCGGCGGGGACCGCGGCTTGGGAGA
CCGGCCGGCGCCCAAGGACAAATGGAGCAACTTCGACCCCACCGGCCTGGAGCGCGCCGCCAAGGCGGCGCGCGA
GCTGGAGCACTCGCGTTATGCCAAGGACGCCCTGAATCTGGCACAGATGCAGGAGCAGACGCTGCAGTTGGAGCA
ACAGTCCAAGCTCAAAGAGTATGAGGCCGCCGTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGA
GAGGAGGAAGACCCTGAGCGAGGAGACCCGGCAGCACCAGGCCAGGGCCCAGTATCAAGACAAGCTGGCCCGGCA
GCGCTACGAGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCCGTGCA
GAAGCAGGAAGCCATGCGGCGAGCCACCGTGGAGCGGGGAGATGGAGCTGCGGCACAAGAATGAGATGCTGCGAGT
GGAGGCCGAGGCCCGGGCGCGCGCCAAGGCCGAGCGGGGAGAATGCAGACATCATCCGCGAGCAGATCCGCCTGAA
GGCGGCCGAGCACCGTCAGACCGTCTTGGAGTCCATCAGGACGGCTGGCACCTTGTTTGGGGAAGGATTCCGTGC
CTTTGTGACAGACTGGGACAAAGTGACAGCCACGGTGGCTGGGCTGACGCTGCTGGCTGTTGGGGTCTACTCAGC
CAAGAATGCCACGCTTGTCGCCGGCCGCTTCATCGAGGCTCGGCTGGGGAAGCCGTCCCTAGTGAGGGAGACGTC
CCGCATCACGGTGCTTGAGGCGCTGCGGCACCCCATCCAGGTCAGCCGGCGGCTCCTCAGTCGACCCCAGGACGC
GCTGGAGGGTGTTGTGCTCAGTCCCAGCCTGGAAGCACGGGTGCGCGACATCGCCATAGCAACAAGGAACACCAA
GAAGAACCGCAGCCTGTACAGGAACATCCTGATGTACGGGCCACCAGGCACCGGGAAGACGCTGTTTGCCAAGAA
ACTCGCCCTGCACTCAGGCATGGACTACGCCATCATGACAGGCGGGGACGTGGCCCCCATGGGGCGGGAAGGCGT
GACCGCCATGCACAAGCTCTTTGACTGGGCCAATACCAGCCGGCGCGGCCTCCTGCTCTTTGTGGATGAAGCGGA
CGCCTTCCTTCGGAAGCGAGCCACCGAGAAGATAAGCGAGGACCTCAGGGCCACACTGAACGCCTTCCTGTACCG
CACGGGCCAGCACAGCAACAAGTTCATGCTGGTCCTGGCCAGCAACCAACCAGAGCAGTTCGACTGGGCCATCAA
TGACCGCATCAATGAGATGGTCCACTTCGACCTGCCAGGGCAGGAGGAACGGGAGCGCCTGGTGAGAATGTATTT
TGACAAGTATGTTCTTAAGCCGGCCACAGAAGGAAAGCAGCGCCTGAAGCTGGCCCAGTTTGACTACGGGAGGAA
GTGCTCGGAGGTCGCTCGGCTGACGGAGGGCATGTCGGGCCGGGAGATCGCTCAGCTGGCCGTGTCCTGGCAGGC
CACGGCGTATGCCTCCGAGGACGGGGTCCTGACCGAGGCCATGATGGACACCCGCGTGCAAGATGCTGTCCAGCA
GCACCAGCAGAAGATGTGCTGGCTGAAGGCGGAAGGGCCTGGGCGTGGGGACGAGCCTTCCCCATCCTGAGTCCA
CAGGGAGATCCACAGCTCACGGAGCCTGGCCGCGGACCCCTCCCACCCCTGCCTTGCCGGCCCCTGCACATTTAG
GATATGCTCCTGGGTGGGGACTGGGCTGTGCCCAGGGCCTCTGTCCCCCAGGATGTCTTGTGGTGCGGGTCGGCC
GTTCTGCCCCCCAGGGCACCCCCTGTTGTAGGCACTGGCTAGGGAGGGGCAGGCCTCCTTCCTGCCCCTCGAGAC
ACTCTTGGGAGATGCATTTTCCGTCTGGCTCACAGGGGGAGGGTGAGGCTTTGCACCCCAGCCCCTGCCCAGGCC
ACTGTGAGGGTGGGTGCTGGCTGACCCCCCGGGGCAGCAGGAGCCAGGCAGGTGATGTCTTTGTTCTCGGCTCCC
ACAGCAGAGCCAGGTGAGGGGGCGCCTGCCAGGGCCAGACCCAGGTGGGGCAGCCTGAACCCTGCTTCCCCCTGT
GGCCGGCATGCCCCGATCTTTCACACACTGGTGACCCTGAGAGAGGAGGGAGGAGGGAACCTGGCGGGGGTGTCT
GAGGCCGCACTGTCAGCTGGCCGGTCCAAGCCTGTGGCTGGAGCTGGGGTCTGTTTACCTAATAAAGTCCCACAG
GTGCCTCATT
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FIGURE 1760

MSWLFGINKGPKGEGAGPPPPLPPAQPGAEGGGDRGLGDRPAPKDKWSNFDPTGLERAAKAARELEHSRYAKDAL
NLAQMQEQTLQLEQQSKLKEYEAAVEQLKSEQIRAQAEERRKTLSEETRQHQARAQYQDKLARQRYEDQLKQQQL
LNEENLRKQEESVQKQEAMRRATVEREMELRHKNEMLRVEAEARARAKAERENADIIREQIRLKAAEHRQTVLES
IRTAGTLFGEGFRAFVTDWDKVTATVAGLTLLAVGVYSAKNATLVAGRFIEARLGKPSLVRETSRITVLEALRHP
IQVSRRLLSRPQDALEGVVLSPSLEARVRDIAIATRNTKKNRSLYRNILMYGPPGTGKTLFAKKLALHSGMDYAI
MTGGDVAPMGREGVTAMHKLFDWANTSRRGLLLFVDEADAFLRKRATEKISEDLRATLNAFLYRTGQHSNKFMLV
LASNQPEQFDWAINDRINEMVHFDLPGQEERERLVRMYFDKYVLKPATEGKQRLKLAQFDYGRKCSEVARLTEGM
SGREIAQLAVSWQATAYASEDGVLTEAMMDTRVQDAVQQHQQKMCWLKAEGPGRGDEPSPS

FIGURE 1761

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GGCACAGGGCTGTGACTAGCGGGCCGGCCCGGGCCAGGACAGCGGGCGGCGGGCGGCGCGGGCCTGGCCCCGGGA
TGGCTATGTTCCGCAGCCTGGTGGCCTCGGCTCAGCAGCGGCAGCCGCCGGCCGGGCCGGCGGGCGGCGACAGCG
GCCTGGAGGCGCAGTACACCTGCCCCATCTGCCTGGAGGTCTATCACCGGCCCGTGGCCATCGGCAGCTGCGGCC
ACACGTTCTGCGGGGAGTGTCTCCAGCCCTGCCTGCAGGTGCCATCCCCGCTGTGCCCACTGTGCCGCCTGCCCT
TCGACCCCAAGAAGGTGGACAAGGCCACCCACGTGGAGAAGCAGCTCTCATCCTACAAAGCGCCCTGTCGAGGCT
GCAACAAAAAGGTGACCCTGGCAAAGATGAGAGTGCACATTTCGTCCTGCCTGAAGGTCCAGGAGCAGATGGCCA
ACTGCCCCAAGTTCGTCCCCGTGGTGCCCACATCACAGCCTATCCCCAGCAACATCCCCAACAGGTCCACCTTCG
CCTGCCCGTACTGTGGTGCCCGCAACCTGGACCAGCAGGAGCTGGTGAAGCACTGTGTGGAAAGCCACCGCAGCG
ACCCCAACCGCGTGGTGTGCCCCATCTGCTCGGCAATGCCCTGGGGGGACCCCAGCTACAAGAGCGCCAACTTCC
TGCAGCACCTGCTTCACCGACACAAGTTCTCCTACGACACCTTTGTGGACTACAGTATTGACGAGGAGGCCGCCT
TCCAGGCTGCTCTGGCCCTGTCTCTCTCTGAGAACTGAAGGGAAGCGCAGCCACCCGCCTGCGTCTGGGGTCAGG
GATGTCCCCGCTCCTGTGTCGCACCTGGCACCTGCTCGGGAGCGCACCTCACCGGACTGAGCTCACAGGAGGAGC
CTGCACCCGCGCAGAAGGGGAGCCGGGGCCGAGCCTCCGGGCCTGAATACGGGCCAGCCGCCGAGGCCGCCAGAG
CAGGGCCGCCTGGTCCCACCGGCGTCGCTGGGTTCTTCGGTGCTTCTGGCCGAGCAGGCGGCCTACTTGGGCAGG
GCTGGACGCTGGGACCTGGAGCTGCCGCCGTCTCTTCAAAGCCATGATACCCCCTCGTGGGAAGAAGGGACCGAC
GCGCGAGTCGCGCTCCGCAGTCGAGCCGGGAGGAACCCAGGCTGCTGCCCTGCCCAGCCCGACCCTGCCCCGGCC
CCGCTTCCACCTTGCGCATTTGGTACTGGCTTTTGTGATACTTAGGAACCCTGGCATCTTTTCTATATTATCCAG
TGTGATAATCTTTTCACGTTTTATAGAGCAAAGACAGAGCAGTTACTCTTCATATTGCAATATCTGTGTTTGACT
AGGAATAATAGTATTTTTATGGAACATTTACAAAATTATATTTTTTAAGAAAACAATCAAAACAAGCATTGGGGG
ATTGGGGCAAGGATGGAAGGAGCAGTGGGGCAGCTGCCAGAGCTCAGGCGAGCCATGGGGTCTGCTGTGGGGTCT
GCCCTGGCCACCCACTGTGTGTCTGGGTCCTTGAGGTTTGTACGTTTCTCTTTGATGACCAGGAAGAAATCCCAG
CACCCCAGCCACAGGCTGTGGCTGCTCCCAGCAGAGGTGGGGCCGGCAGAGAAGGGGCCTCCTCCACCCAGAGTC
CTGGCCTTGGCCCGCTGTCACCTTCAAAGCTGACTGTGCCCCGCTGCGGGAGGGGACGGCACCCCAGTGGTGGCA
GAGCTTGGGGGCCTGGGCAGGGGCCCGCTTGGCGGGCCGGGCAACACGTCAACATTCTTTTCTGTTCTTGGCATT
AATTATTGCTGTCTTTTTTTAAAAAAAAAAAGTTTAAATAAAATGTCTCAGAGCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAA
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FIGURE 1762

MAMFRSLVASAQQRQPPAGPAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLQPCLQVPSPLCPLCRLP
FDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKVQEQMANCPKFVPVVPTSQPIPSNIPNRSTF
ACPYCGARNLDQQELVKHCVESHRSDPNRVVCPICSAMPWGDPSYKSANFLQHLLHRHKFSYDTFVDYSIDEEAA
FQAALALSLSEN

FIGURE 1763A

CGAGCCTAGGGAGGCGAGGTTCCCGCACCGGATAGGAACATTCTGTTGTTTTCCTCTGCCATCTAGTGGCAAAAG
AAAGTAATTTTCCTGGTTTTTTGAATGGATAGCCATACCTTAAAAAGCATCCAGATTGCGCAGTAGTGCTAGCGG
CTTCGCGGTTCAGTCCTCCTAACTGACAGCCGCCACTGGTGCTGAGCTGCTAGGAAGCCCCTGTCGGCGAGCTTG
TTGGAGCTTGAACCCACTGTCACCCCTCCGACTCACCGGCAAAAAAAAAA**ATG**GTTGAAGCAGATCGCCCAGGAA
AGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAAGCTCTTGAAACAGTATTTGGCAAATATGGACGAA
TAGTGGAAGTACTCTTGATAAAAGACCGTGAAACCAACAAATCAAGAGGATTTGCTTTTGTCACCTTTGAAAGCC
CAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCCATCAAGGTGGAACAAG
CCACCAAACCATCATTTGAAAGAGGTAGACATGGACCGCCCCCACCTCCAAGAAGTAGAGGTCCTCCAAGAGGTT
TTGGAGCTGGAAGAGGAGGAAGTGGAGGAACCAGGGGACCTCCTTCACGAGGAGGACACATGGATGATGGTGGAT
ATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTCCCAGTAAAAAGAGGACCACCACCAAGAAGTGGGG
GTCCTTCTCCTAAGAGATCTGCACCTTCAGGACTAGTTCGCAGCAGCAGTGGAATGGGAGGAAGAGCTCCTCTAT
CACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAACCGCTCCCCTCTCGTAGAGATGTTTATTTGTCCC
CAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGCAGAGATTACCCAAGTTCTCGTGATACAAGAGATT
ATGCACCACCACCACGAGATTATACTTACCGTGATTATGGTCATTCCAGTTCACGTGATGACTATCCATCAAGAG
GCTATGGCGATAGAGATGGATATGGTCGTGATCGTGACTATTCAGATCATCCAAGTGGAGGTTCCTACAGAGATT
CATATGAGAGTTATGGTAACTCACGTAGTGCTCCACTTACACGAGGGCCCCCGCCATCTTATGGTGGAAGCAGTC
GCTATGATGATTATAGCAGCTCACGTGATGGATATGGTGGAAGTCGAGACAGTTACTCAAGCAGCCGAAGTGATC
TCTACTCAAGTTGTGACAGGGTTGGCAGACAAGAAAGAGGGCTTCCCCCTTCTGTAGAAAGGGGGTACCCTTCTT
CACGTGATTCCTACAGCAGTTCAAGCCGCGGAGCACCAAGAGGTGCTGGCCCTGGAGGAAGCCGATCTGATAGAG
GGGGAGGCAGAAGCAGATAC**TAG**AAACAAACAAAACTTTGGACCAAAATCCCAGTTCAAAGAAACAAAAAAAGA
GTGGAAACTATTCTATCATAACTACCCAAGGACTACTAAAAGGAAAAATTGTGTTACCTTTTTTAAATTCCCTGT
TAAGTCCCTTCCGTAATTTTTATGTTCTTGTGAGGAAAAAAGTAAAACATGTTTAATTTTATTTGACTTTATGAC
ATTGCTTTTCAACAAGCAAATGTTAAATGTGTTAAGCCTTGTAGTACTAGTGTTGTAACTTTCCAAGTAAAGGTG
TCCCTAAAGACCACTTCCTATCTGGTTTTTCCCAGTAAATGAGGCAAGCAATTCTAAGATCTTCCACAAAACATC
TAGCCATCTAAAATGGAGAGATGAATCATTCTGCCTATACAAACAAGCTAGCTATTAGAGGGTGGTTGGAGTATG
CTACTCATAAGATTTCAGGGTGTTTCTAACTGAAATCTCACTGTTCTCAGTATGCAAAACCTGAAATCAGATGC
CTATGTAAGGAAAGTGCTATTCACCCAGTAAACCCAAAAAAAGCAAATGGATAATGCTGGCCATTTTGCCTTTCT
GACATTTCCTTGGGAATCTGCAAGAACCTCCCCTTTCCCCTCCCACAATAAGACCATTTAAGTGTGTGCTAAACA
ACTACGGAATACTAAATAAAAAGTTTGGCCAAAACCAACCATGAAGCTGCAAAGGTGCTTGCTCTTACTCTTTCA
AATTTTTGCAACTCTAATGTCTCACTTTTAAAGGAACAGCTTGATTGCAAAGGAGAAAATAGATAAGCAATGAAT
TTATCTCCAACTTCCTAAAGGCTTATGACTTCTAAAAAGTGAATCTATCAGCATTCCACATCAGATTTAAAGCAT
CAAATGCCTGTGAAACAGCAAAGATGGTTGAAGATTGTGCTCATTATGTTTGTGGAGTGCTGATTGATTCACAGT
AGATAACGCTGGCAGTAAGAGAAATCAAATGCTAAGAGTTGTTGAAGCAGAAGGCGGCTGATTGTTGGTAAGTCA
GTGCAGTTGCATAAGCAGTGCTGTCAGAATTGGTTTGGTGCAGGCAATAGATTTTGCCTTCAAGGGTTCCTGTGG
ATCTCAGGAAGGCATCAGTGTTGATTAACACTCATAACTAGGGAGTGAGTGGTAGTTACTTAAGTAATTGACCAA
ATGGAAAAGGGGAAGTAATTAAGGAAATTGGTAAGTGGAGGTAGTCAGGAGGTTCTCGTGGTCCTTTACACAGAT
TTTACAGCTTTGGGTTTCATTTTGTTTAGCTAAAGTCATGGGACAACTCTTCAATTTAGAACTTAAGATGAATT
ATAAAAATGATGGATATAAGTGGTAGCTCTATCTGGTGAAGTGTCTTGTCAGTAAGTGAAACATTTTTTTGTGGT
GGCTTATCCACAAACAGTTTAGTTGTAGAATAAAACTTATGAGTGACATCTGGAAAGTAACAACCATGCTAAGAT
GGCAAACACACTGGAAACAATTGGGCCACTTGGCTTTCTTTTGCTGTATTGTTTTATAAGCCTGCTTTACCTCCC
CGTCTTGGAAACAAGTTTTAGTTTATTGCTTTGGAGACTAGAGCCAATAGTGTAATGTTCTCAAAGGAAACAGAC
TTGAGTTGTTGGATTAGAGGAACTAACTCAACTTCTAATTTTTTTTGTTGTAATTATGGCACTGTCATGTTTTAA
CATTTGCAACTAGGGATAGTAAGTACAACATTTTTAACTCTCATTTGGCAGACTACTACTAATCACAGACCACAA
GGGTAATGACCAAATTTATGTGGTTGTTACACTTCCATAGTTGTCTTAGCCGAATCCTTCCATATTCTTATGATT
ACTTGGGTTAAAGCTTCTGTGAGGACCTTTTGGCTCTTAAGATATCCTAAATATTTAAAATATTTAGATATCCTA
AATATAGGATATAGAGTTTGTACCAAATATGAATGAATATTGTTCAAAGCAAGGAGTATGTTAAAATGACCAGAC
ACCTGTTTGATAAATAGTTTACTGAACTAGCAGACGTGTGGAAAAAGAATCAGATCTTGATTCTTCTGGGTTTAT
ACTGGTTGTAAAACAGAATGATATTAGAAAATGTTTTCCTTGTTTAAGTGGTAGTTGAACATAGAACTTGGGTAT

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FIGURE 1763B

TATAGATCACTTTTCACTTTTTGGAATGTTTTGTATTGAAACTTAATACAACTTTAACATGGCAAAAAAAAAAAA
AAA

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FIGURE 1764

MVEADRPGKLFIGGLNTETNEKALETVFGKYGRIVEVLLIKDRETNKSRGFAFVTFESPADAKDAARDMNGKSLD
GKAIKVEQATKPSFERGRHGPPPPPRSRGPPRGFGAGRGGSGGTRGPPSRGGHMDDGGYSMNFNMSSSRGPLPVK
RGPPPRSGGPSPKRSAPSGLVRSSSGMGGRAPLSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYGDRDGYGRDRDYSDHPSGGSYRDSYESYGNSRSAPLTRGP
PPSYGGSSRYDDYSSSRDGYGGSRDSYSSSRSDLYSSCDRVGRQERGLPPSVERGYPSSRDSYSSSSRGAPRGAG
PGGSRSDRGGGRSRY

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FIGURE 1765

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TCCCAAAGTGCAGGGATTACAGGTGTGAGTGAGCCACCGCGGCCGGCCTCTATCATTTTCTGACTCAGCAGCTCC
ACCAAAATTGACATCCTAGCAAACACTGTGAAGGAATTAACCTAAGTGCTTCCAGAGCATCTCATGTAACCTCTA
TGGAGTAAGTCACTTTTTCTGTAACATGTGGCTTTTGACCTTGATGAAGACTTTGACTTCTCATCCCTGTCTACA
TGGAGGAAGATGATTCAGTGGTGGGGAAAATGAACCTCGGTAACATTTCCAATGTCCTTCAAGAGGGAAACAAGT
TCAGTGTTATCATCGTGGCATTCGTTAGTTTTTTTTTTTTTAAATCACTTTTTTAGATACAACTTTATTTTTTTA
TACCTACATAGCACATGACTGGGGGGGATAAAGCATGTATAAGTTGGGAGAGGGTAAAGAATGTGTGACTATGTAT
ACAGAAAATAGACTAAAATGTGCAGCAAAATGATATATACTGTAATCTGGTTTTTGAAGTATCTACTATTCTGGA
ATATTGTTAAACAACTTTTTGCTTTTGAAAAAAAAAGGTGCCTTGATTCAGTTGCGTGACTTAGAACATTCATCC
TATTTTATTGTGATTTTTAATGTCTTCTGACCCCAAACTGTGTTTTTGGTTGCAGTCTGGCGGCTGCAGGCATAG
CGTCGGTTTTGTTCCAATAACAGAGACCAAAGAGTTAATCAGATATGGTTCAGCTGCTACAATTGT**ATG**ATTCAA
AGGCAATTTAATCACCCCAAATTTCCATGGCCCCCACAGTCAAGACCTGCCATTCGTTTTCTCTTGCAGGTTGGA
GTAAATTTGCACTTTGAATCATGTGGGTCATTTGGGGACCTTGTTCTTTTCTATTTTGCTTTATTAATAAAGGAA
CTTGTAGAAACCTC
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FIGURE 1766

MIQRQFNHPKFPWPPQSRPAIRFLLQVGVNLHFESCGSFGDLVLFYFALLIKELVE

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FIGURE 1767

GGCACGAGGGGCACCTTGGCGAGGTGGCGCTGCCGGAGGCTGAGGGCTATCTACACCATCATGCGCTGGTTCCGG
AGACACAAGGTGCGGGCTCACCTGGCTGAGCTGCAGCGGCGATTCCAGGCTGCAAGGCAGCCGCCACTCTACGGG
CGTGACCTTGTGTGGCCGCTGCCCCCTGCTGTGCTGCAGCCCTTCCAGGACACCTGCCACGCACTCTTCTGCAGG
TGGCGGGCCCGGCAGCTGGTGAAGAACATCCCCCCTTCAGACATGCCCCAGATCAAGGCCAAGGTGGCCGCCATG
GGGGCCCTGCAAGGGCTTCGTCAGGACTGGGGCTGCCGACGGGCCTGGGCCCGAGACTACCTGTCCTCTGCCACT
GACAATCCCACAGCATCAAGCCTGTTTGCTCAGCGACTAAAGACACTTCGGGACAAAGATGGCTTCGGGGCTGTG
CTCTTTTCAAGCCATGTCCGCAAGGTGAACCGCTTCCACAAGATCCGGAACCGGGCCCTCCTGCTCACAGACCAG
CACCTCTACAAGCTGGACCCTGACCGGCAGTACCGGGTGATGCGGGCCGTGCCCCTTGAGGCGGTGACGGGGCTG
AGCGTGACCAGCGGAGGAGACCAGCTGGTGGTGCTGCACGCCCGCGGCCAGGACGACCTCGTGGTGTGCCTGCAC
CGCTCCCGGCCGCCATTGGACAACCGCGTTGGGGAGCTGGTGGGCGTGCTGGCCGCACACTGCCAGGGGGAGGGC
CGCACCCTGGAGGTTCGCGTCTCCGACTGCATCCCACTAAGCCATCGCGGGGTCCGGCGCCTCATCTCCGTGGAG
CCCAGGCCGGAGCAGCCAGAGCCCGATTTCCGCTGCGCTCGCGGCTCCTTCACCCTGCTCTGGCCCAGCCGCTGA
GCGCCCGCACCCGCCGCACCCCGAGGCCGCCAATTGTCCGCCCCGCCAGCGCTGCAAATAAACCTTCTGAGTCAG
CCAAAAAAAAAAAAAAAAAAA

FIGURE 1768

GAGCTAGTGACAGGAGGGGCCGGGCTGGTACTTCAGGCGCCCAGGCCGGCGGGGCGCGCTCCGGCGGCTCCTGTC
AGCGGCGGGTGCGGCGGATCCCAGGGCAGCCTTCGGGCGGCGGCGCTGCCTGGTGCGTCGCGGCGTGGTCCTCCG
GCGGCTGTCCGGGGCGGTAGGAGTTGGCTGCGGG**ATG**TGCTCAGCCGGGGAGCTGCTGCGGGGCGGCGACGGCGG
GGAACGCGACGAGGACGGGGACGCGCTGGCGGAGCGGGAGGCGGCAGGGACCGAGTGGGATCCCGGGGCGAGCCA
GCGGCGGCGCGGACAGCGGCAGAAGGAGAGCGAGCAGGATGTTGAAGACTCACAGAACCACACTGGTGAGCCGGT
TGGAGATGACTACAAGAAAATGGGAACACTTTTTGGTGAACTGAACAAAAACCTTATCAACATGGGCTTCACAAG
GATGTATTTTGGAGAACGAATAGTGGAACCAGTAATAGTCATTTTCTTTTGGGTTATGCTGTGGTTCCTTGGCCT
GCAAGCCCTTGGACTAGTTGCTGTTCTTTGCCTTGTTATTATTTATGTGCAACAG**TAA**AACATGGCCGAATTGAA
TTGTTTGACATTTGGTAGCCATATATGTAATTGAAGAAGTTATATATTTCACTTTTTGACAACCGAAAAAGTTTG
CCTTGTTTCAAATCATGTGCTGGCTGTTTTGTAAGTAAATTTATACATGGATGTCACTTAAAACTAAACTCTTGA
TCATAACAGGGTTGAATATATATTTTGAATATACATTAGCTTATTCAAAACTCTTGTTTCACTACTGTGATCTCT
GTCTCCTTTATACACCTCTATCCCCATGCCAAATCTTAAGTAACACCACCAGAAAGTGAACAGGGAAAATAACAG
GACATGGAATTCAAATCAAGCAATATAGTTCTTATAAAGAGTTCCAATAAAACATTTCAGAAGAAAAAGTATGAA
ACAAGCTAAAAGTAAGTTTCACTTAGAAAACTTCTCCCCACTCACACTCCCCACCAAATAATCTCATATTATTTG
GGAAATATTTGGATTTCAATTGTCCCTACCCAGCCTAAACTAAGGTAAATGATAATTAGCATACACTACCTTAAT
ATTGTGATGAAAATCAGTAAAGATAGAACGTTTTCTAAAGGTCAAAAATAATATATTTATTATTACTGGGGAAAG
CTCCCAGGTTAAATATAACTTTTTTAAAATGTAACATTTGGACCTAGACCTACTTTAATATATCATTTGAAGTTT
CAGACAATTTTGGTGCTAATTACTTTTTGTGAGTTTTTAAAGTCTCATAGCCTAGTTGACTGCACCCTATGGTAA
TGCCATATTTTCTTGTATCTAACAAGTTGCATATTTTTTCCTAGAGAGACATTTTCAGTGTATTTTTTTTTAGAA
ATTTATAATTTTATAGTTCTTTCATAACACTTATTCTGAGTTTTGAAACAATGTATTTCCTATCTTGACATGGAT
TTTTTCACAAAAAATTTGTATTTTACTGTTGTTTTTCAGGAAAAAAATCAGATCATTTTTCTTTGATATCTATATC
AGAAAGGTACAATATTAACAGTATAAAACCAAATGCTTAAATTTGGAACTTAGCCAATTTTGATAATCTTTTTCT
AAGGCTAAAGTCACATCAGTAATTGGCTAGCCATGTTATTAAGGTGTCTTAATTCAGCATTTTCAGGTTTTATAT
TGAAATACGCATTTCTTTAAATATTCTTTGAAAATGGAGAATGGCTTTAGTGATATTTTGGGTTTTGTTAGAGAA
CCTAAAATCTTTACACTTTCATCTCAAAGATTATAAAGGAAAGGGGGGTAGTTAAGATTTAGAATTCAAGTTAAA
TTTCAGAAATTGGGGCAGTCAGGCATTTGTATCTTTGGTAGGGCAACAAGTAAAACATGTAGAGTGCTTGCTATC
CCACTTCATAAAGCTTTTACCCAATCTTATTTCTAAACCTCTGTGCATTCTTAGTGTCTTCTCATTCTGAAACAG
AAAATAAGGAAAAACATTTAACTTAGTTTTCTAAAATCAGATAATCCTAAACAAAAATGTTAGTCAGGGTCACTA
AAAAGTATTGCACATTTATATAAATACAGTCCTTTTAAAATTTGACTTTTAAAAAACAAAAGACTTTGTACGATA
TTGTGTTTTTATTGCTTTTGCAATATTTTTATAGTAGCCTTTATGAACTCAGTATAAGTGCAAGTTGTTTGAAAA
GGTGTTTTTATTAGTGCACAATAGAATTGTGAGGTTTTCAATAGATGTCATGAGATTTTGTATATCTACATAAAA
TATCAGTACATTTTTTTCTAATGCTACTGGAAATTTTACTTTTCCTTTGCAACACATAAATGATATGATGTACAA
AATAACAGCTCTGGTTCCACCAGTACCTAATGTTGAAAACATTTTTAAAGTAATTTTTAATACTAACTATTTAGT
ATACTGTCAGTACTGTACATCTGCACACTGGTGTTAATAGGGTATATATTAAATTATATAAAGAAATAAAAAAAA
GAAAAAAAAAAAAAA

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FIGURE 1769

MCSAGELLRGGDGGERDEDGDALAEREAAGTEWDPGASQRRRGQRQKESEQDVEDSQNHTGEPVGDDYKKMGTLF
GELNKNLINMGFTRMYFGERIVEPVIVIFFWVMLWFLGLQALGLVAVLCLVIIYVQQ

FIGURE 1770

GGAACGAGGCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGG**ATG**GATCCCGTACCCGGGACAGACTCGGCGCCG
CTGGCTGGCCTGGCCTGGTCGTCGGCCTCTGCACCCCCGCCGCGGGGGTTCAGCGCGATCTCCTGCACCGTCGAG
GGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTGCCTTAGTTCTCTGGGCAGC
CTAGAGAACCCGCAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAGCCCCCTGCCGCTGGGCTTC
TCCCCCGTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCCC
CTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGACAGTGCCTGGATACCTTCGA
ATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCCGAGGCCAGTGCCCAAGCCCCGAGGT
CTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGGCGGCCTCCTGGAGCGGACA
GCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGAGGCCTCCAGCCTCTATGGC
ATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAGCTGCAGCCCCCTGGCCTTC
TCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAACTACGGCTTCGTGGTGGAG
AAGACCGCGGCTGCCCGCCTGCCCCCCAGCGTCTCA**TAG**TCCCTCACCCTTCCGCGGAAAGAGCCCCCTTACTCC
ACCTCCCCGCCAGCCTGGGGCCACCCCCCCTCACTGCATCCTGGGGCCACCCCCACTCACTGCATCCTGGGAACC
TTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGAGGAGGGGGCGGGTCGAGGC
TGCGTGGTGATGGGGTCTCCGCCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGACAGAAGCCAGTGCCTTTAAG
TCATTTGTGTCAAAACCCTCTGGGGTCCGGAGGCTGTGCGGGTGTCCTCCTGGCAATAAACACTACCCGGTTCTC
GCAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1771

MDPVPGTDSAPLAGLAWSSASAPPPRGFSAISCTVEGAPASFGKSFAQKSGYFLCLSSLGSLENPQENVVADIQI
VVDKSPLPLGFSPVCDPMDSKASVSKKKRMCVKLLPLGATDTAVFDVRLSGKTKTVPGYLRIGDMGGFAIWCKKA
KAPRPVPKPRGLSRDMQGLSLDAASQPSKGGLLERTASRLGSRASTLRRNDSIYEASSLYGISAMDGVPFTLHPR
FEGKSCSPLAFSAFGDLTIKSLADIEEEYNYGFVVEKTAAARLPPSVS

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FIGURE 1772

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TTCGGCAGAGCCCTTGCGCGCTCTTGAATACCTGCKTTCTGTAGCGCTAGTTCTCTTCAAGATTTGCTTAGTGTC
ATTTCATTTCGGTTTCTTTTCTCGCCATGTTTTTCTGTCGGAATTACGGTTCGTTTTGGTTCTATGTACTCTCTA
AAATGTTATCGTTTTTCATTTGTCTACTAATTTTCGTGCATTTGTTACTACTGAGTTTCTTAATATCTGACTGGC
CTCCGCCCACGGGCTCTGCAGAXCATAAAATACTCAGGCTGATGGTAGTGCAGAGACTCTCCCTCCTTGATCAGC
GCAAACGTTGGTCTGAGGCTTGAGGGATGGAGCAACATTTTCTTGGCTGTGTGAAGCGGGCTTGGGATTCCGCAG
AGGTGGCGCCAGAGCCCCAGCCTCCACCTATTGTGAGTTCAGAAGATCGTGGGCCGTGGCCTCTTCCTTTGTATC
CAGTACTAGGAGAGTACTCACTGGACAGCTGTGATTTGGGACTGCTTTCCAGCCCTTGCTGGCGGCTGCCCGGAG
TCTACTGGCAAAACGGACTCTCTCCTGGAGTCCAGAGCACCTTGGAACCAAGTACAGCGAAGCCCACTGAGTTCA
GTTGGCCGGGGACACAGAAGCAGCAAGARGCACCCGTAGAAKARGTGGGGCAGGCAGARGAACCCGACAGACTCA
GGCTCCRGCAGCTTCCCTGGAGCAGTCCTCTCCATCCYTGGGACAGACAGCAGGACACCGAGGTCTGTGACAGCG
GGTGCCTTTTGGAACGCCGCCATCCTCCTGCCCTCCAGCCGTGGCGCCACCTCCCGGGTTTCTCAGACTGCCTGG
AGTGGATTCTTCGCGTTGGTTTTGCCGCGTTCTCTGTACTCTGGGCGTGCTGTTCACGGATCTGTGGAGCTAAGC
AGCCTTAGATAGCAGCAGAAGGCTTTTTGGATTCTCCTCCTTGAAAAGATTCTCAGTTACCAAACGTCTCCACCT
AGAAAATAAAAATACATTAAGATGTTGAXAAAAAAAAAAXAAAAAA
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FIGURE 1773

MLSFFICLLIFVHLLLLSFLISDWPPPTGSAXHKILRLMVVQRLSLLDQRKRWSEA

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FIGURE 1774

GAATCTCTCGCGGGCAGCAGGGCGCGCGCTGCACGCACAGTACTAGGTCAGGTGGTGCTCCCGGGTGAGGAGCTG
CTCCTGCCGGAACAGGAGGACGCGGAAGGCCCTGGGGGTGCAGTGGAGCGACCGTTGAGCCTGA**ATG**CTAGAGCG
TGCTCGCGGGTGCGCGTTTGTATGCGGTCCGGGCCTTCGACGCTGTGGGGACCGCCTGCTGGTCACCAAGTGCGG
CCGCCTCCGTCACAAGGAGCCCGGCAGTGGAGGCGGCGGCGGTGTTTACTGGGTGGACTCTCAGCAGAAGCGGTA
TGTTCCAGTAAAAGGAGACCATGTGATTGGCATAGTGACAGCTAAATCTGGAGATATATTCAAAGTTGATGTTGG
AGGGAGTGAGCCAGCTTCTTTGTCTTACTTGTCATTTGAAGGTGCAACTAAAAGAAACAGACCAAATGTGCAGGT
TGGAGATCTCATCTATGGCCAGTTTGTGGTTGCTAATAAAGACATGGAACCAGAGATGGTCTGTATTGACAGCTG
TGGACGAGCCAATGGAATGGGTGTCATTGGACAGGATGGTCTGCTTTTTAAAGTGACTCTGGGCTTAATTAGAAA
GCTATTAGCTCCAGATTGTGAAATCATACAGGAAGTGGGAAAACTCTATCCACTGGAGATAGTATTTGGAATGAA
TGGAAGAATATGGGTTAAGGCAAAAACCATCCAGCAGACTTTAATTTTGGCAAACATTTTAGAAGCTTGTGAACA
CATGACGTCAGATCAAAGAAAACAGATCTTCTCCAGATTGGCAGAAAGT**TGA**TATAGGTGGACTTTTTTACAGGT
CAGTTGAGGCAAAAAACTATGGGTTTTTTCAGGTGAACCTCCCCCATTTAAATACTCAGAAGATAAGGTGTGAAT
GTATGTATTATTAGAGTCCGAAAGTATTTTTATAAGTTACTGGTTTTCACCCACGCTTTTGTGGGAGAGAAAATC
ATTGCAAAATCATTTTTTTTGTTCGGTACAATAAAGTTTACTAAAAAACAAA

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FIGURE 1775

MLERARGCAFVCGPGLRRCGDRLLVTKCGRLRHKEPGSGGGGGVYWVDSQQKRYVPVKGDHVIGIVTAKSGDIFK
VDVGGSEPASLSYLSFEGATKRNRPNVQVGDLIYGQFVVANKDMEPEMVCIDSCGRANGMGVIGQDGLLFKVTLG
LIRKLLAPDCEIIQEVGKLYPLEIVFGMNGRIWVKAKTIQQTLILANILEACEHMTSDQRKQIFSRLAES

FIGURE 1776

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GAATTCGGCACGAGCAAATGTTGAACCAATTATGTTTTGGTGGTGGTGTTCTTAGCTGTTGAATCCTGAATGGTT
TATAAAGTGAACTAGCTGGCTTAATGCAGCCAGCGTTCTGGGCAGCAGAACATATTCATTCTTACTGTAAATTCT
ATTTGCTGCTTCCAAAGGTGATGATTTTCAAGCAGACATGTTCTATATGGTCTGTGTTTTAGGATCTGGTGCCCA
GCCTCTATCAGAGCTTGCCTACCTGGCAAAGCTGCCTACCCTTCAAGTGGGAAAATATAATCCACTGTTTAACAA
GGCTCACCCTCTCCACCCTGTCCTAACGACCTTTTGTGAATGTGCTGTGATATTTTCTTGCTCAATAGCAAGGTG
GTAGCTCTGCTTTCATTTTAAGAAAGTGGAGGCTGAGGGCATTGTATCAATACTGTTGCAACTCCAAGAAGTTTT
CCTTGTAAAATTAAAGGAAAGATCTTGTTATTGATTAACCATTTTCTTATGCCTTGCTATTGACATATTCATGCT
CTTTCTACGTCTAGTGGCTGAAAATGTTTGCATTTGTTCATTTGACTAATGGTGTGATTTTTGKYYCWATATTAT
TAGACCTGTAATGTTTTAAAATGTATTTTATTAAATTTGGACTGGATGTATGKCCTCTAGCAATACGAGGTACTT
TCTAAACTATTAAGGGAGGGGTTGTAYCCTCATGTTGAGATAAGATGATGGTCGTTTAAATTTTGCAATTTTTTT
TGGCCTGCAGGGATATTTTGTGTTTATGTGTCCAAAAAAGGAATAAATTGGCATTCTTGTGCCAAAAGTTGTTTT
TCCTGTCAATTGTCTAATAAGTATGCAGTACACTGTAATGGCAACATACATGGTTGCTTTATAAAAACAGTTTCC
TCAGTATGAGAAATTTTACAAAGAACAGTGGAAAAACTTTGTGTTTTTAACTCTTGGGTCTCCCTATTTTTAAAA
ATTGCTATTTGGTATACAATTATTATGTGTCAATTAAAACTAAAATAAAACTTTTAAAAAARAAAAAAAAAAAAA
AAAAAAAAACTCGTA
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FIGURE 1777

MFYMVCVLGSGAQPLSELAYLAKLPTLQVGKYNPLFNKAHPLHPVLTTFCECAVIFSCSIARW

FIGURE 1778

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GGGGAGATCCGGCTAGAGGGGAGGCTCTGACATCTCCTTCCTTCCTGGTTCCTGCAGCAGCTGCTGCCACTGCTC
AGCGCGGTGAGGAGGGAGCCGGTGACTCGGAGACGGTGACTCAGAGGCAGAGCGGCGCAAGGGCCAAGGAGTACT
GGCGTCCATGGACCCTGGGGACCCCGTCAGGAGCAGGTGACATCCTTCCCCTTCCACCCTGCTCCCTGCTCTACA
TCCCCAGCAGGGAGTGGCCTCTCCCTTCTCCATGGACTTCCAAGAGAGGGACCCGCCCTTCCTGCCTGAGAGCGC
TCAGTCCTCAAAGCCCAGCAGTGCTCAGCAGGCCTCTGAGCTGTGGGAGGTGGTGGAGGAGCCTCGGGTCAGGCT
GGGGACAGAGGGTGTCATGCCTGAGAGGCAGGAAGGTCACCTGCTCAAGAGGAGGAAGTGGCCTCTGAAGGGCTG
GCACAAGAGATACTTTGTGCTCGAGGACGGGATCCTTCATTATGCAACAACCCGGCAAGACATCACCAAGGGGAA
GCTCCATGGCTCCATCGATGTCCGGCTGTCGGTCATGTCCATCAACAAAAAGGCCCAGCGCATTGACCTTGACAC
TGAAGACAACATCTACCACCTCAAGATCAAATCCCAGGACCTATTCCAGAGCTGGGTGGCGCAGCTGCGTGCCCA
CCGCCTAGCCCACCGCCTGGACATGCCCCGTGGCTCACTGCCCAGTACTGCTCACCGGAAGGTTCCTGGTGCCCA
GCTTCCAACAGCAGCTACTGCCTCAGCCCTACCTGGGCTTGGACCGCGGGAGAAAGTGTCTTCCTGGCTGAGGGA
CAGTGATGGGCTGGACCGCTGCTCTCATGAGCTCTCTGAGTGTCAGGGGAAGCTCCAGGAACTACACAGGCTCCT
CCAGAGCCTGGAGTCCCTGCACCGAATCCCCTCAGCCCCTGTTATCCCCACACACCAGGCCTCAGTGACAACCGA
AAGACCCAAGAAGGGGAAACGGACAAGCCGCATGTGGTGCACCCAGAGCTTTGCCAAGGATGACACCATTGGACG
GGTTGGTCGTCTCCATGGCTCTGTTCCCAACCTGTCTCGCTACCTGGAGTCTCGGGACTCCTCGGGCACCCGTGG
GCTGCCACCCACAGACTATGCCCACCTGCAGCGCAGCTTCTGGGCCCTGGCCCAGAAGGTGCACAGCTCCCTCAG
CAGCGTCCTGGCCGCCCTCACCATGGAACGGGACCAACTGAGGGACATGCACCAGGGCTCAGAGTTGTCAAGAAT
GGGGGTCTCTGAGGCCTCCACTGGCCAGAGGCGCCTCCACTCACTGTCCACCTCCTCCGACACCACGGCGGACTC
TTTCAGCTCCCTCAACCCTGAGGAGCAAGAAGCTCTGTACATGAAGGGGCGCGAGCTCACCCCCCAGCTATCGCA
GACCAGCATCCTGTCCCTTGCTGATTCCCACACGGAGTTCTTCGATGCCTGCGAGGTTCTCCTCTCCGCCAGCTC
TTCTGAGAATGAGGGCTCAGAGGAGGAGGAGTCCTGTACCAGTGAAATCACCACCAGCCTGTCTGAGGAGATGCT
GGACCTCAGGGGAGCTGAGCGCTGTCAGAAAGGGGGGTGTGTTCCAGGGAGACCCATGGGGCCACCCCGCCGTCG
CTGCCTGCCGGCGGCCAGCGGGCCTGGGGCTGACGTGAGCCTGTGGAACATTCTGCGCAACAACATCGGCAAAGA
CCTGTCCAAGGTGTCAATGCCTGTGCAGCTCAACGAGCCGCTCAACACTCTGCAGCGGCTCTGCGAGGAGCTGGA
GTACAGCAGCCTCCTGGACCAGGCCAGCCGCATCGCCGACCCCTGCGAGCGCATGGTGTACATCGCAGCCTTTGC
TGTCTCGGCCTACTCCTCCACATACCACCGAGCCGGCTGCAAGCCCTTCAACCCTGTCCTGGGGGAGACCTACGA
GTGTGAGCGGCCTGACCGAGGCTTCCGCTTCATCAGTGAGCAGGTCTCCCACCACCCCCCTATCTCGGCCTGCCA
TGCAGAGTCTGAGAACTTCGCCTTCTGGCAAGATATGAAGTGGAAGAACAAGTTCTGGGGCAAATCCCTGGAGAT
TGTGCCTGTGGGAACAGTCAACGTCAGCCTGCCCAGGTTTGGGGACCACTTTGAGTGGAACAAGGTGACATCCTG
CATTCACAATGTCCTGAGTGGTCAGCGCTGGATCGAGCACTATGGGGAGGTGCTCATCCGAAACACACAGGACAG
CTCCTGCCACTGCAAGATCACCTTCTGCAAGGCCAAGTACTGGAGTTCCAATGTCCACGAGGTGCAGGGCGCTGT
GCTCAGTCGGAGTGGCCGTGTCCTCCACCGACTCTTTGGGAAGTGGCACGAGGGGCTGTACCGGGGACCCACGCC
AGGTGGCCAGTGCATCTGGAAACCCAACTCAATGCCCCCCGACCATGAGCGAAACTTCGGCTTCACCCAGTTTGC
CTTGGAGCTGAATGAGCTGACAGCAGAGCTGAAACGGTCGCTGCCTTCCACCGACACGAGACTCCGGCCAGACCA
GAGGTACCTGGAGGAGGGGAACATACAGGCCGCTGAGGCCCAGAAGAGAAGGATCGAGCAGCTGCAGCGAGACAG
GCGCAAAGTCATGGAGGAAAACAACATCGTACACCAGGCTCGCTTCTTCAGGCGGCAGACGGATAGCAGCGGGAA
AGAGTGGTGGGTGACCAACAATACCTACTGGAGGCTGCGGGCCGAGCCAGGCTATGGGAACATGGATGGGGCCGT
GCTCTGGTAGCCCTGGCCCCGGGGGCAGGAGGCTCTGGTTCCTCACTCCTCCTGCCTCCACCCCCTACCATGGAC
ACATGGGTGAGGCCGGGCTCCCCGCCTCACTGCCCTTCTGCCCATCTCCAGCATCTTCTTCCCCTTCCCTGGCCC
TGCAGGGCCTTCTCCAGCTCCCTTTGGTTAGTCCCTGGCCATCCCTCCTGTCCTGGATCCCTTCTCCCTAACTGC
AAAATGCCTGCAGCTTCCAGCTCCTTCGTCCCTGATCCTCAAGCGGTTCCCTCCCGTTTCAGCTCAGCGGATCCC
CCAGAGTGGAGGAGGCCTCTCCATGAGGAGGGGAGCAGCCCAAGGCACCTGTCCTCTGACCCACCGGCAGCGAGT
GCGCAGGTGTGAGTGTAAGTTCATGTAGGAGAGTGTATGCGTGTGCGCCTGTGCCCTGCTTGCAGGCAAGCAGGG
CTCCCTCATGTAGCCCCGCCTTCCCCCTGCTGGGGGTCCACCACATCGCTGCTCTTTCTCACAGTCTGCCTCTGA
TGAGGGCGAATTGCTATGACATTCCAAGCTCCAATAAAGACTGTCCCAG
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FIGURE 1779

MDFQERDPPFLPESAQSSKPSSAQQASELWEVVEEPRVRLGTEGVMPERQEGHLLKRRKWPLKGWHKRYFVLEDG
ILHYATTRQDITKGKLHGSIDVRLSVMSINKKAQRIDLDTEDNIYHLKIKSQDLFQSWVAQLRAHRLAHRLDMPR
GSLPSTAHRKVPGAQLPTAATASALPGLGPREKVSSWLRDSDGLDRCSHELSECQGKLQELHRLLQSLESLHRIP
SAPVIPTHQASVTTERPKKGKRTSRMWCTQSFAKDDTIGRVGRLHGSVPNLSRYLESRDSSGTRGLPPTDYAHLQ
RSFWALAQKVHSSLSSVLAALTMERDQLRDMHQGSELSRMGVSEASTGQRRLHSLSTSSDTTADSFSSLNPEEQE
ALYMKGRELTPQLSQTSILSLADSHTEFFDACEVLLSASSSENEGSEEEESCTSEITTSLSEEMLDLRGAERCQK
GGCVPGRPMGPPRRRCLPAASGPGADVSLWNILRNNIGKDLSKVSMPVQLNEPLNTLQRLCEELEYSSLLDQASR
IADPCERMVYIAAFAVSAYSSTYHRAGCKPFNPVLGETYECERPDRGFRFISEQVSHHPPISACHAESENFAFWQ
DMKWKNKFWGKSLEIVPVGTVNVSLPRFGDHFEWNKVTSCIHNVLSGQRWIEHYGEVLIRNTQDSSCHCKITFCK
AKYWSSNVHEVQGAVLSRSGRVLHRLFGKWHEGLYRGPTPGGQCIWKPNSMPPDHERNFGFTQFALELNELTAEL
KRSLPSTDTRLRPDQRYLEEGNIQAAEAQKRRIEQLQRDRRKVMEENNIVHQARFFRRQTDSSGKEWWVTNNTYW
RLRAEPGYGNMDGAVLW

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FIGURE 1780

AGCGGAAGGGGCCTTTCGGAACGATTTGGAACGAAAGGAAGTGGAAGAAACGCGGAACC**ATG**GCCGCTGTGGTTG
CTGTTTGCGGTGGTCTAGGGAGGAAGAAGTTGACACACTTGGTAACGGCTGCTGTCAGCCTTACACATCCCGGGA
CTCACACGGTGCTTTGGAGAAGAGGTTGTTCACAACAGGTATCCAGCAATGAGGACCTGCCCATTTCAATGGAAA
ATCCTTATAAAGAACCTCTTAAGAAATGTATCTTGTGTGGAAAGCATGTAGATTATAAGAATGTACAGCTTTTGT
CCCAGTTTGTTTCTCCATTTACTGGATGCATTTATGGAAGGCACATTACAGGTCTTTGTGGGAAGAAACAGAAAG
AAATCACAAAAGCAATTAAGAGAGCTCAAATAATGGGGTTTATGCCAGTTACATACAAGGATCCTGCATATCTCA
AGGACCCTAAAGTTTGTAACATCAGATATCGGGAA**TAA**ATTCTATCACGTTACCACTAATAAACTTATTTTACAG
TAAGTGGTTGTATGATGCCAATACTGACTCAAACCAACCTTTGGATAGAAAGTGTTTGAGGAGTGAGGTAAAGA
ATGACACTTCCCCTTCATACCAATGTCCATTAAGCAGATTGCTTATTTAAAATGTTAACACTCATCACATTTTAT
CTATGTTGAATAAAAGTGGTTCTGTGTGATTGTCATTTATATCTGATCCCCAAATAGCTCATACAATAATCCATT
CAATAGAATGGAATTAAAACTGTTCAGAATGATTTCCAACTAGCAAATATAAGTATGCCTGGTTAAGATATCTT
CCCTTTGTAGAAATGTTACATTGGGATGGATAGTGGTGCTGTCACAGAAGGACAAAATATTCCTAGACGAGTCTA
TCCTCAAACCAGTAGTGTCTTTTACATGAAGAGATGATTTACACCTAATAGACATTGAATATGATAGACATACAT
GTATATATGTATCAGTTCTGAGTTCCACTGGCCTATCCC

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FIGURE 1781

MAAVVAVCGGLGRKKLTHLVTAAVSLTHPGTHTVLWRRGCSQQVSSNEDLPISMENPYKEPLKKCILCGKHVDYK
NVQLLSQFVSPFTGCIYGRHITGLCGKKQKEITKAIKRAQIMGFMPVTYKDPAYLKDPKVCNIRYRE

FIGURE 1782

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TATGTTAAAGTCTGGGACATGTTAAAAGGAGGACAATTGCTAGTATCTTTGAAAAATCATCACAAAACCGTGACA
TGTTTATGTCTAAGCAGCTCTGGACAGAGGTTACTTTCTGGCTCACTGGATAGGAAGGTGAAAGTATACAGCACA
ACTTCCTACAAAGTAGTCCACAGTTTTGATTATGCAGCTTCAATTTTGAGTCTTGCCCTTGCACATGAAGATGAG
ACAATAGTTGTAGGAATGACCAATGGAATACTGAGTGTTAAACATCGGAAATCTGAAGCAAAGAAGGAATCACTT
CCCAGAAGAAGAAGGCCTGCATATCGAACCTTTATTAAAGGAAAAAAATTACATGAAGCAACGGGATGACATTTTG
ATTAACAGGCCAGCAAAGAAGCACCTAGAATTGTATGACAGGGATCTGAAACATTTTCGGATCTCTAAGGCACTC
GATAGAGTTCTTGGTCCCACTTGTACAATAAAGACACCCGAGATTACGGTGTCCATCATAAAGGAGTTAAATCGA
AGAGGAGTCCTTGCAAATGCGCTTGCAGGTCGGGATGAGAAGGAAATCAGTCATGTTCTTAATTTTTTGATAAGG
AATCTTTCTCAGCCAAGATTTGCTCCTGTTTTAATCAATGCTGCTGAAATAATTATTGATATATATCTGCCTGTA
ATTGGTCAGTCCCCTGTAGTTGATAAAAAGTTTTTACTACTTCAAGGACTTGTAGAAAAAGAGATTGATTACCAA
AGAGAATTGTTAGAAACCTTGGGGATGATGGATATGCTTTTTGCCACCATGAGAAGGAAGGAAGGCACTTCTGTG
TTGGAACACACATCTGATGGATTTCCAGAGAATAAGAAGATAGAATCATAGTGTCTGCTAAATAAGACATATAAG
GACTCTGAAGTTGGAATAGATTTGACTGTATTAAATGTTGGCGAGAGACTCTCTTTGATACATTAAAAAAACTGT
TTGCAGAAGCAGTTCTGTGGAAGAGACTGGAATAATTATGGCCGGAAAACAAGTACCCGTTTTAAGTAAGACATG
GTTTTCCATGTAATATTTTGAATTATAGCATCTTCACCTAGAAGATCTCAATTGTCTTAGTCACAGAGTAGGTTT
ATCTGGGATGGATATTAATTTTAATACAGGAGTGTTCTGTATCAACATTTGGGTTGGTATTCAGATGGGAATTCA
AATATGAATCCTCTCTGGAGAGGGTCCAACTGGGAATCCTGCTAAAGGAGCAAAGCCTTGTATTACCTCTGGAAG
ACAACAAAAACAATTGGCAACAACAAAAAGCCTCTTTCTTGACTTTAATCAGTGCCTTTGGGATTTCTGGGCCCT
TGCTTAGCTTGCTTCCTGTCTCCTTGATATCTACACTTGTCTTAGATCACATGCCCTGCTTCAGCTGGTAATGGG
ACTGCATCGGTTCCAAGTGTGGCAAGTAAGTTTTCGGCTCTGAAGAACTGACACTAGCTAGATTTGTATTCAGAG
TGTGAGAGCAAGCTCTACAGATAGACCTTATTGGACTACTTTTTTTTTTTTCTTCATGCAGCCTTTCTACCAAGT
TTTCACCTTGTTTCAGGTCAGAGGAATGATAGAATTTGTCATTTTTCTTACAACAGCCTTTCAGACTATTCTTCA
TATGTTTCAAGCTAATCTTGTAGCTAAGCTACCTAATCCTCTGAAAACTGTTTTCTCTGATTGTATTTAGATTC
CTCCCCCCATTATTCACAATCATATTGTATTTCGGAACCCCAATGCAGAGCAGTTTGCTTTGAAAAATAGTTGTT
TTTAAAAGTTTAATGTAAATAATTATTTTTTAGAAGTTTTTTTTTTTTTTTAAAGACAGGGTCTCGCTTTATCG
CCCAGGCTGGAGTACAGTGATGCAATCTCAGTCCACTGCAACCTCTGCCCTCCCGGGTTTAAGCAGTTCTCCTGC
CTCAGCCTCCTGAGTAGCTGGGATTACAGGTGTGCCCCACCACGCCTGGCTAATTTTTGTAGTTTTAGTAGAGAC
GGGGTTTCACCTTACCGGGCTGGTCTAAAACTCCTGACCTCAAGTGATCTACCTGCCTCTGCCTCCCGAAGTGCT
TGGATTACAGGTGTGAGCCACTGTGTCCAGCCTGTAACTATTATTTTTTTATAAAGAGAGATTCTTATTTTCTTG
GCTTTTTGATGTATCTGTTCCTGATAGATAATCATTGGCTAGTAACTCCTAGTACACTGGTTTCACAGTTGCTAC
CTCTCCTGCTTTTCTCTAATTATTACGCCAACTCAAGTAGTTAAAAATCAGTAAGAAAAATGTCTTGAGCTAGAA
GAACCCATAGAGGAAGATTTTGTAATGCGAATCTCCTCTCATAATTTTAGTTCTGTAAATTCAGGGTTTTTTTTT
GTTTTTTTGTTTTTTTTAAGCCGAAAAAATGCTTAATATGTTCCAGTAATGGTATTAAGTAAAAATTAAATAAAC
GTATTAAGTTTAACATATTAAATTAATTTAACATTTAGACTAACATTAACATTTAAATTAATATGTTAAGTGAAT
ATACTTAATATATTCTAGTACAGGTATGCTTGGAAATAGGGCGTTTCCTTTTCATGAATTGATTTCGTACAGCAC
AGTGGCTTATAAGGAACCAGCAGTGTTTTTCCCTGAGTAATTATGAACTTAGTCAAGATCAGAAGCTGGGTTTTG
GGGTTGAGAAGAGTTCATTTATTTAAATAAAGTTTCTATTTAAAAACCTTT
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FIGURE 1783

MLKGGQLLVSLKNHHKTVTCLCLSSSGQRLLSGSLDRKVKVYSTTSYKVVHSFDYAASILSLALAHEDETIVVGM
TNGILSVKHRKSEAKKESLPRRRRPAYRTFIKGKNYMKQRDDILINRPAKKHLELYDRDLKHFRISKALDRVLGP
TCTIKTPEITVSIIKELNRRGVLANALAGRDEKEISHVLNFLIRNLSQPRFAPVLINAAEIIIDIYLPVIGQSPV
VDKKFLLLQGLVEKEIDYQRELLETLGMMDMLFATMRRKEGTSVLEHTSDGFPENKKIES

FIGURE 1784

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CGGGCCCGGGGTCCTTCCCGCCTCCGCGGCCGCCGGCCGCTTTGTTTCCCCTGCCTCTGCGCTTCGGGCGACTCG
AGAGGGTCTCCCGCCGGGGTTGCGAAGGGGACGCGGCGGCAGAAGGGCGGCCGACCCCGCCGGGACTCACAGGGA
CCCAGGAGTCCGGCCGCCGGGAGGGCCGCGTGAGGAGAGCGAAGAGGGAGCCCGAGCTCTGCGGCCCCGGGTGGC
GGGCCGGGGGCGCCCGTGAGCAGAGACCTCCCCGTCGACGGGGGGGCGATGTTCCCCTCACCCGTGGGCTCTTCGG
GCAGCCAGGGCATCCCGCCGCTGGGACCTGGACCCGCTCAGTGGGCACCCCTCAGGCTGCTCC**ATG**GAGACCCTG
TGCCCTGCGCCCCGCCTGGCAGTGCCGGCGTCCCCGCGAGGGTCGCCCTGCTCCCCCACGCCCCGGAAGCCGTGT
CGGGGGGACCCAGGAATTCTCTCCGCTGTGCCTGCGTGCCCTCGCCTTCTGCGCCCTTGCCAAGCCCCGGGCGTCC
TCTCTGGGCCCGGGGCCTGGGGAGCTGGCGGCGCGGTCCCCAGTGCTGCGGGGCCCTCAGGCCCCCCTGCGCCCT
GGCGGCTGGGCCCCGGATGGCCTGAAGCACCTCTGGGCACCGACCGGGCGGCCCGGCGTTCCTAACACCGCCGCC
GGCGAGGATGCGGACGTCGCAGCGTGCCCCCGCCGCGGAGAGGAGGAAGAGGGCGGAGGCGGTTTCCCGCACTTC
GGCGTTCGCTCCTGTGCACCTCCGGGCCGCTGCCCTGCGCCCCCGCACCCTCGGGAATCTACGACCAGCTTCGCC
TCGGCCCCGCCTCGCCCGGCCCCGGGTCTCGAGCCTCAGCGTGGCCCAGCCGCCAGCCCGCCTCAGGAACCCAGT
TCCCGGCCTCCGTCGCCACCTGCGGGCCTCTCCACCGAGCCCGCGGGTCCCGGGACGGCGCCGCGGCCGTTCCTG
CCCGGCCAGCCTGCCGAAGTCGATGGAAACCCCCCGCCGGCCGCCCCCGAGGCTCCAGCGGCCAGCCCCTCGACG
GCCAGCCCGGCTCCGGCCGCACCCGGAGATCTCCGCCAGGAACATTTCGATCGTCTGATCCGCCGGTCGAAACTT
TGGTGTTACGCGAAGGGCTTCGCCTTGGACACTCCGAGTTTGCGCCGGGGGCAGAGCGGCCGCCTGCGAAAGGG
CCGGCTCGGGGAGCCGCCAAGAAACGCCGGCTGCCGGCGCCCCCTCCGCGCACCGCGCAGCCCCGCCGCCCTGCA
CCGACGCTCCCCACCACGAGCACCTTCAGCCTCCTCAACTGCTTCCCCTGCCCCCCGGCCCTGGTGGTGGGGGAA
GACGGAGACCTAAAGCCGGCATCCTCGCTTCGCCTCCAGGGAGACTCTAAGCCCCCGCCCGCCCACCCGCTGTGG
AGGTGGCAGATGGGGGGTCCCGCTGTCCCTGAGCCCCCTGGCCTCAAATTCTGGGGGATCAACATGGATGAAAGC
**TGA**CCGTGGGACTTCTGCCAAAGGGGAAAAGTTGGGACCATGGCCAAACCGCGGGCTTGAGGAGGGAGCCCCGTT
TCTCACATTTGTCCCCTTCCTTTACATTTTAGGAGCTGTGGGCAGAGGGACCTAAATAACAGTGATCTTCATTCA
AGCACCTAAGTTTTCGGGGTGACAGTCCCTCCCCCTCATCCTTTGCAGAGGAACCCAGGGCTGGAGTCGGGAGAA
GGCTGATGACATAGATTCCAATCCCTGCCTCCTTCCATCTCGGACCGTTGGAGGCAGGGCCTGCACCCCAGTGGG
AGCAAAGGAGGCCACCGCTCAAAGACAGCCCCTCACCCAAAAAAAAGGGGAGAAGAGAGAGACCTCGGTGATGGA
CAAACCGGTTGTTACTGTGTCTGTGGGCGAGCCTGGGGTGCGGGGCTGTGGTGGGGGTGGGGAGATGATTGGCAG
CTCCCTGGGGGCATCCCCCACCCCCACTGTCCAGGCCTTTAACCCTTTGCTCCCCTCAGGCCTTCCCTAACGCTC
CAAGCACCGCTGGAGCCTTTAATGGGTGAGGGAACTTGGGTAAGAGGAAGATCACCCCCTTCCTGTCCCCTTTCT
AGGCCCCCTCAAGTGCAGGTGACCCTTAATTGGTGAGATCTTCAGCCTCAGCCGCCGACCTTTCCCTTTTGTCCA
GTTTTGGGAGTTCCCGTTTTTTCCTTGTTTGCTTTCCGAGTGTAAGGTCTGGCCGGTGAGAAAGATTTCCCCCAAC
CTTGATTAATCAGCCCCCTCCCCCAACTTACTTCCCTTAGGACGGGTAGGGCTGAGGGACCTCCTCTCCTGGAAA
GTGCTTACTTTGCCTGGGGAAGGGGCTAGACACTGTCCCAGGGAAAGTAATAGAAGGTGGAAGAAATCAATAAAA
TCAGACCAAACAAGTCGCCTTTCGAGGGCCTCCACCGATTTATGGATGAGAGGGGGTGGAGGTGGAAGGCAGGCC
CAAGTCCATTCTTTGGACACCCAAACTCAGCCCCCTTAAAGAGTGGAAACAAAACAAGCTGCACTTTGCAGAGGT
GGTAAATGAAAGGACTCTTGGCCTAACTTCAAGAGTCCCTGGGGTTTGAAGGGGCAAAGTTTGAGTCTGGATGG
AACCTGGGCTGAGGTACCTTAAGCTTCCCCCCGCAACACCCCAGCCTCAGGGATTGCGGGAGTTGTCAGAGATCT
GATGGATCCGAAAGGGGCAGGGCCAGGGGATTAGGTTTGGGGTCAGAGGTTCTGTTTTCCAGGGGAGGGGTGAGA
TAGGCCTGGATCATGCCCTCTGCCATGCCCTCCAGCTAGGAGGATCTTGAGTCAGAGAGGATTGGAAGTGCTTTC
TCCTCCACCCAGGTGAGGTCAGGGGAGCTTAGGTCTTAGGGAGATGGCAAGTTGAGGTATGAAGGGAAGCTGGGG
CTTTTGGAGCTGCCGAACAACTGAGGGACCCAGTGCGCCTTCCATCCCGCACTAGTGAATAGCGCCCCCTCTTCC
CCCGAAAACGAGGTGCGAGAGGAACAATTCCCACGCTGGGGAAGGACTTGTCTCCTTTTCTGTGAAAATGCTTTG
TAAAAAGTTGTTATTGTTTGCATAGAGCAGATTCTTGAGAAAAACTGTTTTGGACCATAAAAGTTTTGTTTGTTT
T
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FIGURE 1785

METLCPAPRLAVPASPRGSPCSPTPRKPCRGTQEFSPLCLRALAFCALAKPRASSLGPGPGELAARSPVLRGPQA
PLRPGGWAPDGLKHLWAPTGRPGVPNTAAGEDADVAACPRRGEEEEGGGGFPHFGVRSCAPPGRCPAPPHPREST
TSFASAPPRPAPGLEPQRGPAASPPQEPSSRPPSPPAGLSTEPAGPGTAPRPFLPGQPAEVDGNPPPAAPEAPAA
SPSTASPAPAAPGDLRQEHFDRLIRRSKLWCYAKGFALDTPSLRRGPERPPAKGPARGAAKKRRLPAPPPRTAQP
RRPAPTLPTTSTFSLLNCFPCPPALVVGEDGDLKPASSLRLQGDSKPPPAHPLWRWQMGGPAVPEPPGLKFWGIN
MDES

FIGURE 1786

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CGCGGTTCGGTCGGCTGCAGCGCTACTTTTGGTCCGGGGTCGGCAGGGAGGCCGCGGCTACCGCATCACAGCTGA
.CGTGAGGACTACGTGGGGCCGCTGCCGGCTCCGGGTTGCTGGGCGGCGGCGCCGCTGCTGAGCGGCGGTCGGGCT
CGCCGTCTCCACCTCCTCGCGTCCGTAATCAGTGACGAGGTCCGCTACGTAAATCCCTTTGCGGCGGACAA**ATG**A
CCATGGAAACAGTTGAATCCCAGCATGATGGAAGTATAACAGCTTCTTTGACAGAGAGCAAGTCTGCTCATGTGC
AGACTCAGACTGGCCAAAATTCAATCCCTGCTTTAGCTCAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCAG
AATCAGAAGGTGTAATTGATTCTCATAAACGTAGAGAAATCCTTTCACGAAGACCCTCTTATAGGAAAATACTGA
ATGAACTGTCCTCTGATGTGCCTGGTGTTCCCAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCTA
GTATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACAGTATGTATGCTGCAATTC
GATATGATACAGTGCTAGCTTTAAGTCTTCTC**TAG**TTATATTGAAGCAACTCAGGTTTTGGCATTAAATTGTTCC
ATTTTAAAATGCATCATTAATACCTAAACTGTATCATAGAATGAAAGTATATGTTAAAAAGTGAGATCTTTGTAT
TGACAGCTGTCATATAATTTTGAAAAGTAAAAATTTTGACTGCCGAATATAGAAGAAAATTTTGGGGTAAAAAGG
AGAATTTTTCCTATTTACATGTTTATATTAATCTCTAGTAAAACATTGTTTTTGTTGTCTTTATGATGCATGCGA
ACATAAATGTCTGTATTTCATTCTTGTTGGCTTTTGTTACCCACAATTACATACTATTCTTACTAATCTGAGAGT
TTTCTAAAGTATGTTTTCAATGTTTCACTACTCTCTACTCTGTTAATTTGTGCTACAGTTTTTCCTAAAAGAGAA
TGGAAAAATGATTTAATTTTTTAAACTGTAGCAATTGGATAGATAATTTTATTTGAAATTTTACACACTGAAAGC
TCTAAATAAACAGATACATTCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A
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FIGURE 1787

MTMETVESQHDGSITASLTESKSAHVQTQTGQNSIPALAQVAAIAETDESAESEGVIDSHKRREILSRRPSYRKI
LNELSSDVPGVPKIEEERSEEEGTPPSIATMAVPTSIYQTSTGQYSMYAAIRYDTVLALSLL

1975/2682
FIGURE 1788

ACATGACGGGCACGCCAGGCGCCGTTGCCACCCGGGATGGCGAGGCCCCCGAGCGCTCCCCGCCCTGCAGTCCGA
GCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGTCGGCAAAACATGTTTCCTGATCCAATTCA
AAGACGGGGCCTTCCTGTCCGGAACCTTCATAGCCACCGTCGGCATAGACTTCAGGAACAAGGTGGTGACTGTGG
ATGGCGTGAGAGTGAAGCTGCAGATCTGGGACACCGCTGGGCAGGAACGGTTCCGAAGCGTCACCCATGCTTATT
ACAGAGATGCTCAGGCCTTGCTTCTGCTGTATGACATCACCAACAAATCTTCTTTCGACAACATCAGGGCCTGGC
TCACTGAGATTCATGAGTATGCCCAGAGGGACGTGGTGATCATGCTGCTAGGCAACAAGGCGGATATGAGCAGCG
AAAGAGTGATCCGTTCCGAAGACGGAGAGACCTTGGCCAGGGAGTACGGTGTTCCCTTCCTGGAGACCAGCGCCA
AGACTGGCATGAATGTGGAGTTAGCCTTTCTGGCCATCGCCAAGGAACTGAAATACCGGGCCGGGCATCAGGCGG
ATGAGCCCAGCTTCCAGATCCGAGACTATGTAGAGTCCCAGAAGAAGCGCTCCAGCTGCTGCTCCTTCATGTGAA
TCCCAGGGGGCAGAGAGGAGGCTCTGGAGGCACACAGGATGCAGCCTTCCCCCTCCCAGGCCTGGCTTATTCCAA
GAGGCTGGTCTTGAATTCCTGAGCTCAAGCAACCTGCCGGCCTCGGCCTCCCAAAGTACTGGGATTACACGCAGA
AGGCACCATGCCCAGGCTAGATGTGTCTTATCCCAATCCTTTGGCAGGCATGCAGCTCCACAGGCGATTTCTTCA
AGCAGCTGAAGTGTTTAGCCCTCCTGGGTTAAGAGCCAGATAAGGAGAAATCCCTTCCTAGGTTTGGAATGTGT
TGTGAAAAAAAAGAGAAATCCCTGGCTCCTGGAGCTGGTGGGAGACAAGATTAAGCAAACCTCCCCTGACATGTA
TCCCTTTGACCCCAAGCTCTGCCTCCTCCCTGACCACCCATGCCCTTTCCTTTAACTTCTCAAACAGATACCAGG
GCCTAAACTGCTTTACCTCCCCTCCTACTGAGTCAGGTTAGGTGGTGGGAGGTCACCCATTTCCGAGTTAAACCA
ATGCAATATGAGTAAAACAAAGTCATGTGGGTATGTCTGGGGTAGAGAGAGGGGTAGCAAGTTCATGTGTCCTCC
TTGGTCACATATCTCCCAAAGCTCCGATCCCTGCCATGGGAAGTGGACAGGAAACATGAGGTCATGACCTGCAGG
CATCTTTACTGCAGCTCTGCCGGCCTGGAGGGGGAGAGGGGGAGGAAGAAGTATGCGCTGCACATTTCTGAGGCT
ACTGCATTTGCTTTCAAGGCAGAAATCTTGCTCTGAGCAGTCAGCGGCTCCAGTTTGGGCCCGATAAGGAAGTTC
TCCGTGGCCTCCCTCAGGCAGAGCAGGGAGGAGGCTGACATTGCCAGTCTCTTCTGGGGCCCAAGGCAGGTTGCA
GGAGATCCAATCCCATAGACAGCTCTGGGCCTCTTGCATTTGAGTTTTTCAGAATTAAACTGCAGTATTTTGGAA
AGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1976/2682
FIGURE 1789

MTGTPGAVATRDGEAPERSPPCSPSYDLTGKVMLLGDTGVGKTCFLIQFKDGAFLSGTFIATVGIDFRNKVVTVD
GVRVKLQIWDTAGQERFRSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTEIHEYAQRDVVIMLLGNKADMSSE
RVIRSEDGETLAREYGVPFLETSAKTGMNVELAFLAIAKELKYRAGHQADEPSFQIRDYVESQKKRSSCCSFM

1977/2682
FIGURE 1790

CTATCTTAATTCATTTTATTCTACAAAATGCTACTCAACTGAAAGTGGAAATGCTAACCCCCCTCCCCCAAAAAA
ATCGCAAGGGAAAGAAGTTTTAATATGTTCTTTCTTCCATAGCAGCAAGCTTTTTCTAACAAGCTTTCTTTAGTG
CAAATACTGTAGGCTTGTATTACATATAGTAAAACAACAAAACAACAACAACAACAAAAACCACCACCAGAAAGG
CTTCCAAACAAAGCTACTCCTCAATTTTCAAAACTATACAAAGATTTTGAGCTTGCGGTTCTGCCTGGAAGGTCT
ATTTAGGAGACTCTCCAATGGGACCATTTCACCATTACTTAAAAAAAAAAAAAAAAAAAAAGTGCCCAGAAAGGTA
ATTAAATTCCCCATAGGGCCATATGAACCATATACAACTTGTTTGCCTCCAGAGTCTTACAGCTGACTTTACTCC
ACGTCATTAACATATCTCAAATACAGATGCACAAAGCTTATTTTCTACTATACACCAAAX

1978/2682
FIGURE 1791

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TTTTTTCTGCTACCGTGACTAAGATGGAAGCGTTTTTGGGGTCGCGGTCCGGACTTTGGGCGGGGGGTCCGGCCC
CAGGACAGTTTTACCGCATTCCGTCCACTCCCGATTCCTTCATGGATCCGGCGTCTGCACTTTACAGAGGTCCAA
TCACGCGGACCCAGAACCCCATGGTGACCGGGACCTCAGTCCTCGGCGTTAAGTTCGAGGGCGGAGTGGTGATTG
CCGCAGACATGCTGGGATCCTACGGCTCCTTGGCTCGTTTCCGCAACATCTCTCGCATTATGCGAGTCAACAACA
GTACCATGCTGGGTGCCTCTGGCGACTACGCTGATTTCCAGTATTTGAAGCAAGTTCTCGGCCAGATGGTGATTG
ATGAGGAGCTTCTGGGAGATGGACACAGCTATAGTCCTAGAGCTATTCATTCATGGCTGACCAGGGCCATGTACA
GCCGGCGCTCGAAGATGAACCCTTTGTGGAACACCATGGTCATCGGAGGCTATGCTGATGGAGAGAGCTTCCTCG
GTTATGTGGACATGCTTGGTGTAGCCTATGAAGCCCCTTCGCTGGCCACTGGTTATGGTGCATACTTGGCTCAGC
CTCTGCTGCGAGAAGTTCTGGAGAAGCAGCCAGTGCTAAGCCAGACCGAGGCCCGCGACTTAGTAGAACGCTGCA
TGCGAGTGCTGTACTACCGAGATGCCCGTTCTTACAACCGGTTTCAAACCGCCACTGTCACCGAAAAAGGTGTTG
AAATAGAGGGACCATTGTCTACAGAGACCAACTGGGATATTGCCCACATGATCAGTGGCTTTGAATGAAATACAG
ATGCATTATCCAGAACTGAAGTTGCCCTACTTTTAACTTTGAACTTGGCTAGTTCAAAGATAGACTCTTCTTTTG
TAAAGTAAATAAATTCTTCAAAATG
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FIGURE 1792

MEAFLGSRSGLWAGGPAPGQFYRIPSTPDSFMDPASALYRGPITRTQNPMVTGTSVLGVKFEGGVVIAADMLGSY
GSLARFRNISRIMRVNNSTMLGASGDYADFQYLKQVLGQMVIDEELLGDGHSYSPRAIHSWLTRAMYSRRSKMNP
LWNTMVIGGYADGESFLGYVDMLGVAYEAPSLATGYGAYLAQPLLREVLEKQPVLSQTEARDLVERCMRVLYYRD
ARSYNRFQTATVTEKGVEIEGPLSTETNWDIAHMISGFE

1980/2682
FIGURE 1793

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CCCTACTGCGGGTCCCGCTGCTGGCAGCGCTGGAAACTGGGTGGACGGCATGGGTTGGTCTCAGGATTTGTTCCG
CGCCTTGTGGAGATCGCTGTCAAGGGAAGTGAAAGAGCACGTGGGCACGGACCAATTCGGGAACAAATACTACTA
CATCCCGCAGTACAAGAACTGGAGAGGACAAACTATTCGAGAGAAAAGAATTGTAGAAGCAGCAAATAAAAAAGA
AGTAGACTATGAAGCAGGGGATATTCCAACAGAATGGGAAGCTTGGATTAGAAGAACAAGAAAGACTCCACCTAC
TATGGAGGAAATACTAAAGAATGAAAAACACAGAGAAGAAATCAAAATAAAAAGCCAAGATTTTTATGAAAAAGA
AAAACTCCTTAGTAAAGAGACCAGTGAGGAACTCCTGCCTCCACCAGTTCAAACTCAAATTAAAGGCCATGCCTC
TGCTCCATACTTTGGAAAGGAAGAACCCTCAGTGGCTCCCAGCAGCACTGGTAAAACCTTTCAGCCAGGATCCTG
GATGCCACGAGATGGCAAGAGCCACAATCAATGAATGCATTATGGTCAAATCTTTTCATGTATATGGATGTGACT
ATTTTAACAAATAAAGAAGTGAAAAGTTAAAAAAAAAAAAAAAAAAAA
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FIGURE 1794

GC**ATG**AACTTGGGGGTCAGCATGCTGAGGATCCTCTTCCTCCTGGATGTAGGAGGAGCTCAAGTGCTGGCAACAG
GCAAGACCCCTGGGGCTGAAATTGATTTCAAGTACGCCCTCATCGGGACTGCTGTGGGTGTCGCCATATCTGCTG
GCTTCCTGGCCCTGAAGATCTGCATGATCAGGAGGCACTTATTTGACGACGACTCTTCCGACCTGAAAAGCACGC
CTGGGGGCCTCAGTGACACCATCCCGCTAAAGAAGAGAGCCCCAAGGCGAAACCACAATTTCTCCAAAAGAGATG
CACAGGTGATTGAGCTG**TAG**GTGAGCAGTGACGTGAAGAGGGGTTCTAGCCCCGTGGAAAACAGCCCATGGTTAA
CATCTCAGGATGTTCTGCATTCAAACACCCAAGGCTGGTAATGAACTTTCACATGGACTGAATATTGGAGGCAAA
TAATAGAAGGAATAGAATATACAGTGCCTCTGTCCTGAAGGAAAATATCATGCCTCTTCTGGAAGAAACGGACTG
CACAGAGGAAGGATTGAGCAATTTAGCCTGCAGTGGAAGAAGGTGGACACCAAAAGCTTCACCCTGTGTTGGAGC
TGTTCATGCTTCCATGAGGCCATGGTGTCCATGTCCGTGGAACCTACCACAGAAAATGGCTCATGAAAAGGGGAA
TCCGACCCAACACACAGCTTCCTACACACTGCCATCTTATCAACAGTTAGGCACTACTTTGTAGAACGATTAGCT
TCACCCTCTTAGCTGCCAGGAGATCCCTTCTTAAAGATGGACTATGTGAAGATTCGGGAGTCCTGAAACATGGGG
ACTCCGGGATGGTCTCTAGCCCTATCGATGATGAACACTGGCCTTCTGGAGGGGAAATGGCAGTCTGGGCTGGCG
TGGTAGGAAGGGCTTTGGTGTTCATGGAATGGGCCTGCTGCTCTCAGACCTTCAAAGGATGGAACCAACGAAGGA
CCAAATGAGAAAGCAGATGCTGTGCCTTGCAGAGGGCCATGAATGTCAGTTATTATTTTTCTCCTTATACAATTA
TTTTGTGGTTATTATTACAATGTACATGGCTGTTGCATAGAAGACATGACTGGTGGAGGCTGAGGAAAGCCATGA
CATTCTACAATTGCCATCAGGCTAAGGCCCCGTGAGCATTTCTCTCCCTTGTAATATTAACCCTGTATTTCTGGG
ATCACATCACGGAATATTCTTTGCCTTTCCACTTTCCAGGAAATCTCTCGGACTGGGCTACCCTCCTTGTGTGTG
ATGAAAGATGAGCTATATTTCAGAACAAAGTGCTGTGTTGTCATAATTTGCCTGGACTCCCAGGGCGTCTCTTAC
CCAACTTGATAACGATGCTGTTCATTAGCAGCCTTTGTTAACTGATAACCAAGAGCGGTAATGTGATACTCATAA
GCAATTTTCTGTGTGTAGGATAAAATAAACCATCTTGTATGGGAAAA

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FIGURE 1795

MNLGVSMLRILFLLDVGGAQVLATGKTPGAEIDFKYALIGTAVGVAISAGFLALKICMIRRHLFDDDSSDLKSTP
GGLSDTIPLKKRAPRRNHNFSKRDAQVIEL

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FIGURE 1796

GTCAGTCTTAGACGACTGCGTCGTGCTATGACCGGACTTTTTCTTGAAAGGGGATGACAGC**ATG**GGAGGCAATGG
CTCCACATGTAAACCCGACACTGAAAGACAAGGCACTCTCTCCACAGCAGCCCCAACAACTAGCCCTGCACCCTG
TCTCTCTAACCACCACAACAAAAAACATTTAATCCTTGCCTTTGTGCTGGGGTTCTACTGACACTGCTGCTGAT
AGCCTTTATCTTCCTCATCATAAAGAGCTACAGAAAATATCGAAGGGAGAGGCTTCCCATTTCCCCAGGCCCATT
GCTGAGATGGGTCCCTCTTCTTTCTGGCACCATGGCAGATCACTCCAAGCCCCAGGCCCCAGATCCTCACTCAGA
TCCTCCAGCCAAGCTTTCATCCATCCCAGGGGAATCACTTACCTATGCCAGCACAACTTTCAAACTCTCAGAAGA
AAAGAGCAATCACTTGGCTGAGAACCATTCTGCAGACTTTGACCCCATTGTCTATGCTCAAATTAAAGTAACAAA
C**TAA**CTCAGCTTTTCCAATGAGGCTTGAATCCATTTCCTCTCATCTCAGCCCTATCTTCACACATCACTTTCACT
TTTTTACAAATTTTGGACCACCACCTGTGTGAAACTGCAGTCGGAGTTGTTTAGATGTGATCTGGCAATGCTATC
CAGCATCTTTGGAGACCAATGGTCAGTCTTTTCCTGGCCAGAGGAAAGATTGATGGCCCTCCCACTTGAACTGAC
AGCCTGTGAGCCCCTTGGGGGCATAGACTGCCTTCCTTGGACCCTTCCAAAGTGTGTGGTACGGAGCTCAGTGCA
CAGAGTATTCACCCAGCATCATGAATCAACTTGGGAGGAGTCAACCAAATGAACAATCTACCAAAAATTTCAAAT
AAAGTCAAACCCCCCAC

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FIGURE 1797

MGGNGSTCKPDTERQGTLSTAAPTTSPAPCLSNHHNKKHLILAFCAGVLLTLLLIAFIFLIIKSYRKYRRERLPI
SPGPLLRWVPLLSGTMADHSKPQAPDPHSDPPAKLSSIPGESLTYASTTFKLSEEKSNHLAENHSADFDPIVYAQ
IKVTN

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FIGURE 1798

GGAGGGTTTTGCTCTTTGTGTGGGTGTGTGAGTGGCTATGATCCTAGTTGTCCAGCTGCTGCGTGGAGAATAAGT
AAAGCAGGTCTGA**ATG**ACACCAGGTCGCTGCTGTCTTGCGGCTGACATTCAGGTAGAGACGTTCATCTTCACTGA
CGGGGAAGATGAGGCCCTGGCCAGGCACACGGGCAACGTGGTCATCACAAACTGCTCGGCCGCCCACAGCCGCCA
GGCGCTGTCCTGCAAGATGGCCGTGGAGTATGACCGCTTCATCGAGTCCGGCAGGAAGTGGTTCTGCCACGTGGA
CGATGACAACTACGTCAACCTGCGGGCCCTGCTGCGGCTGCTGGCCAGCTACCCGCACACGCGGGACGTCTACGT
CGGCAAGCCCAGCCTGGACAGGCCCATCCAGGCCATGGAGCGGGTCAGCGAGAACAAGGTGCGTCCTGTCCACTT
CTGGTTTGCCACGGGCGGCGCTGGCTTCTGCATCAGCCGTGGGCTGGCTCTGAAGATGAGCCCGTGGGCCAGCGG
GGGTCACTTCATGAATACGGCTGAGCGGATCCGGCTGCCTGATGACTGCACCATCGGCTACATCGTGGAGGCCCT
GCTGGGTGTGCCCCTCATCCGCAGCGGCCTCTTCCACTCCCACCTGGAGAACCTGCAGCAGGTGCCCACCTCGGA
GCTCCACGAGCAGGTGACGCTGAGCTACGGTATGTTTGAAAACAAGCGGAACGCCGTCCACGTGAAGGGGCCCTT
CTCGGTGGAGGCCGACCCATCCAGGTTCCGCTCCATCCACTGCCACCTGTACCCGGACACACCCTGGTGTCCCCG
.CACTGCCATCTTC**TAG**TGGCCATGGCTGAGACCCAATCCCTGGGCGCCCCTGGTATCCAAAGGGCCCAGGGACCC
TGTTGCGCTGCCCTGGCCTCGGCATTCGAGGCTCCCCTAGGGCCGTGCCTGTGCGTGTGCGTGTGCATGTGCGTG
TGTGTGTGTGTGTACTGCATGCCCACCCGGGTAGCAGGCTGCTGGGCAGTTCTGCTCTGTGGAGGGGCGGGCACC
AGCGCCACTTATGTGCCTCTGCTCCGAGGGCCAGTGGGCTGCAGGGCCTGCTTGGAGGAAGGATTTGTGTGTCGG
AGGCCACTCCGAGGGCAATTCTGTTAGGATTTTTGGATCTTTCTACAGCTACGGGGCTCCGGGCTACTTTGCAGG
GATGCGATGCGTAGGTGCCTTTCTCTTCCTGCTGACCACAAGCTCTGTGCTGGGGGTACCTGTGCCCTGAAGTCC
TGGCCCCTGTGTCATAGCCCCAAGTACGACTCACTGAGCCATGCTCATTGCAGGGGAGGCTGGGTCTGGGGGTGC
GTGACCCAATCCCCTTCCTCCTGGCCTGGACGCTGTGGCTTAAGAGTAACAGCAGCCACCGCCCAGTTCCAGTGG
CCCCACGAAGCCCCCAGTGGCTGGCTGTCCAGCTGGGCAAACAGTGGCACCCCTCCCAGCTCTTCTGAGTGGGGA
GTCTTCCAGGCCTCCTCAGAGGTCTTCCCTTTGCCTCCCCAGGACAGGGTGAGTCAGAGCTCAGCATTTAATCTC
CTCTCCAAAGTAGAGAGCAAGTCGCCCACAGTGGGCGTGTCTGTAAATATTGTGACAGTATTTTTTTACTGTGCT
GTTTTTTTTGAAAGGGGGATGGGTAAAAAGTAGGGTGTTCTTGTTTTTTGCTTGGGAGGGTGGGGTGGGGGAGGG
TCTTATTTTATCTTATCTTTTCTGTGGATCAGAAAAAACAGAAGCCAAACTCGGGGTCATCTTTGTTTTTAAAGC
TGAAGTGGGACTGTCTGGCACTCTGTGTATTTATGCGTTCCAGCATCTGGAACCTCCCATCCCTGCCCTCCTCCT
GTGTAGCTGCCACCTCCCCGCTGGGCCCAGCATGGCTCACCTGTCCCGTGGGCTGTGTTTCTTGTTGTTTTTCTC
TTTGCAAAGACATAGCTAGGAAAGCGAATGATAAGGGAAAAGTTCTCAGGGAATTGAAGTGTTGTTGCTATGGTG
ACGTCCTTTTGCTGTGAATAAAGGTGCTCTTTGCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 1799

MTPGRCCLAADIQVETFIFTDGEDEALARHTGNVVITNCSAAHSRQALSCKMAVEYDRFIESGRKWFCHVDDDNY
VNLRALLRLLASYPHTRDVYVGKPSLDRPIQAMERVSENKVRPVHFWFATGGAGFCISRGLALKMSPWASGGHFM
NTAERIRLPDDCTIGYIVEALLGVPLIRSGLFHSHLENLQQVPTSELHEQVTLSYGMFENKRNAVHVKGPFSVEA
DPSRFRSIHCHLYPDTPWCPRTAIF

FIGURE 1800

CTTCTCATTAGCATTAACTAGTTATGCCCAGCTTGGGAGAGCCTTCTTTGGGCTTATCATTTATTATAAGCCCAG
AAATAGGTGACTAATCAGAGATAAATGTATGGGTTGTCTGTATCTAGTTTTATGCCTTTTTTTTTGCCTAAGACG
TAGTCAAATTAATATTTTAACTAATACATCTTAGCAGAGTTTAGTTAAGCACAAAGTTAACAGTGGGTAGGATTG
AATCTTGAAAGTAATCATGTCTGTAATGTTTTTCATGCATGCAAAAAGCACAGACAAAACCACTCATGCCCTATT
AATAAACAAAATACAGATCAAAGTTTTCAAAAGTAATCACTCTATTTATTCTAAATGTCTGTGGCTTTAGGAAAA
TACCACCAGCTAGTACTTACCTATTTAAAGATGTAGAATTTATTATCCTCTAATATTCTTATCAGTTGTTTCCAC
AACTTTAGTTTACTATTGGACTTTCAAAAATTTAAAGAATTACAAGTAAAATTCATTAAACACTTGTGTGTGAAT
AGTAATACACAGTAATTAGTACAGCATGTTGCTTCTTCAACAAATTGAGTTTTCAGGGAAATCAGCAAGTAAATG
AAATATAAATTTTTGGTAAAAGTATCAAACATTCATCTTGCCCATTTTTCCTCTTAAACTTTATTATCTAATCAA
ACATAGTTTTCCATAAGATGTAATAAAATATAGATAAGGTTGGAATATTTGAGGATCCATTTGTGGAACTGAATT
TAATGAGACTTCATTGGTGATACACTCAATTTTTACTGGGTAATTAGCTAATAATGTTGGTCACTGTCTCACAGT
TCAAGTAGCTTTAAGATGATGTGGCAAGGAAAACACAAAGCTTTTGGGTAACCAGCGTTCTTAAATGTATGGTTT
TTGACCAGGTGAACCCTTTAGAAGTGATTTCTGTTTTAAAAGTATGTACTTAAAATACCTTTGGCTGTGATGAAT
GTAGATCCCAGCAGAATACCAAAATCCTATTTTTTTTGACTGAGTATTTGTAGATGCTTAATGACTGAAATGAAT
TTGGAGGCACTGATGAAAGTGATTTTTTTAAAGTTCTCAGGTACTGTTCAATTATTTAATGTTAAGTTTAGTATC
AAGATACAGTTGTTTTTAAAATGCCAAAATGCTGTTTATTATACAGAATATTTTATTACATTTGCAATATCTTTG
TATATAGTGATTTTTTTCTTGATAATAAATGGAAAAATTCTAAAACAAA

FIGURE 1801A

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GTGCTGCCGTGACACTCGGCCCTCCAGTGTTGCGGAGAGGCAAGAGCAGCGACCGCGGCACCTGTCCGCCCGGAG
CTGGGACGCGGGCGCCCGGGCGGCCGGACGAAGCGAGGAGGGACCGCCGAGGTGCGCGTCTGTGCGGCTCAGCCT
GGCGGGGGGACGCGGGGAGAATGTGGACTGGGTAGAGATGAACGAGACTTTTCTCAGATGTTGGATATTTGCTTGG
AAAAACGTGTGGGTACGACCTTGGCTGCCCCCAAGTGTAACTCCAGCACTGTGAGGTTTCAGGGATTGGCAGAGG
GGACCAAGGGGACCATGAAAATGGACATGGAGGATGCGGATATGACTCTGTGGACAGAGGCTGAGTTTGAAGAGA
AGTGTACATACATTGTGAACGACCACCCCTGGGATTCTGGTGCTGATGGCGGTACTTCGGTTCAGGCGGAGGCAT
CCTTACCAAGGAATCTGCTTTTCAAGTATGCCACCAACAGTGAAGAGGTTATTGGAGTGATGAGTAAAGAATACA
TACCAAAGGGCACACGTTTTGGACCCCTAATAGGTGAAATCTACACCAATGACACAGTTCCTAAGAACGCCAACA
GGAAATATTTTTGGAGGATCTATTCCAGAGGGGAGCTTCACCACTTCATTGACGGCTTTAATGAAGAGAAAAGCA
ACTGGATGCGCTATGTGAATCCAGCACACTCTCCCCGGGAGCAAAACCTGGCTGCGTGTCAGAACGGGATGAACA
TCTACTTCTACACCATTAAGCCCATCCCTGCCAACCAGGAACTTCTTGTGTGGTATTGTCGGGACTTTGCAGAAA
GGCTTCACTACCCTTATCCCGGAGAGCTGACAATGATGAATCTCACACAAACACAGAGCAGTCTAAAGCAACCGA
GCACTGAGAAAAATGAACTCTGCCCAAAGAATGTCCCAAAGAGAGAGTACAGCGTGAAAGAAATCCTAAAATTGG
ACTCCACCCCTCCAAGGAAAGGACCTCTACCGTTCTAACATTTCACCCCTCACATCAGAAAAGGACCTCGATGAC
TTTAGAAGACGTGGGAGCCCCGAAATGCCCTTCTACCCTCGGGTCGTTTACCCCATCCGGGCCCCTCTGCCAGAA
GACTTTTTGAAAGCTTCCCTGGCCTACGGGATCGAGAGACCCACGTACATCACTCGCTCCCCCATTCCATCCTCC
ACCACTCCAAGCCCCTCTGCAAGAAGCAGCCCCGACCAAAGCCTCAAGAGCTCCAGCCCTCACAGCAGCCCTGGG
AATACGGTGTCCCCTGTGGGCCCCGGCTCTCAAGAGCACCGGGACTCCTACGCTTACTTGAACGCGTCCTACGGC
ACGGAAGGTTTGGGCTCCTACCCTGGCTACGCACCCCTGCCCCACCTCCCGCCAGCTTTCATCCCCTCGTACAAC
GCTCACTACCCCAAGTTCCTCTTGCCCCCCTACGGCATGAATTGTAATGGCCTGAGCGCTGTGAGCAGCATGAAT
GGCATCAACAACTTTGGCCTCTTCCCGAGGCTGTGCCCTGTCTACAGCAATCTCCTCGGTGGGGGCAGCCTGCCC
CACCCCATGCTCAACCCCACTTCTCTCCCGAGCTCGCTGCCCTCAGATGGAGCCCGGAGGTTGCTCCAGCCGGAG
CATCCCAGGGAGGTGCTTGTCCCGGCGCCCCACAGTGCCTTCTCCTTTACCGGGGCCGCCGCCAGCATGAAGGAC
AAGGCCTGTAGCCCCACAAGCGGGTCTCCCACGGCGGGAACAGCCGCCACGGCAGAACATGTGGTGCAGCCCAAA
GCTACCTCAGCAGCGATGGCAGCCCCCAGCAGCGACGAAGCCATGAATCTCATTAAAAACAAAAGAAACATGACC
GGCTACAAGACCCTTCCCTACCCGCTGAAGAAGCAGAACGGCAAGATCAAGTACGAATGCAACGTTTGCGCCAAG
ACTTTCGGCCAGCTCTCCAATCTGAAGGTCCACCTGAGAGTGCACAGTGGAGAACGGCCTTTCAAATGTCAGACT
TGCAACAAGGGCTTTACTCAGCTCGCCCACCTGCAGAAACACTACCTGGTACACACGGGAGAAAAGCCACATGAA
TGCCAGGTCTGCCACAAGAGATTTAGCAGCACCAGCAATCTCAAGACCCACCTGCGACTCCATTCTGGAGAGAAA
CCATACCAATGCAAGGTGTGCCCTGCCAAGTTCACCCAGTTTGTGCACCTGAAACTGCACAAGCGTCTGCACACC
CGGGAGCGGCCCCACAAGTGCTCCCAGTGCCACAAGAACTACATCCATCTCTGTAGCCTCAAGGTTCACCTGAAA
GGGAACTGCGCTGCGGCCCCGGCGCCTGGGCTGCCCTTGGAAGATCTGACCCGAATCAATGAAGAAATCGAGAAG
TTTGACATCAGTGACAATGCTGACCGGCTCGAGGACGTGGAGGATGACATCAGTGTGATCTCTGTAGTGGAGAAG
GAAATTCTGGCCGTGGTCAGAAAAGAGAAAGAAGAAACTGGCCTGAAAGTGTCTTTGCAAAGAAACATGGGGAAT
GGACTCCTCTCCTCAGGGTGCAGCCTTTATGAGTCATCAGATCTACCCCTCATGAAGTTGCCTCCCAGCAACCCA
CTACCTCTGGTACCTGTAAAGGTCAAACAAGAAACAGTTGAACCAATGGATCCTTAAGATTTTCAGAAAACACTT
ATTTTGTTTCTTAAGTTATGACTTGGTGAGTCAGGGTGCCTGTAGGAAGTGGCTTGTACATAATCCCAGCTCTGC
AAAGCTCTCTCGACAGCAAATGGTTTCCCCTCACCTCTGGAATTAAAGAAGGAACTCCAAAGTTACTGAAATCTC
AGGGCATGAACAAGGCAAAGGCCATATATATATATATATATATATATATATCTGTATACATATTATATATACT
TATTTACACCTGTGTCTATATATTTGCCCCTGTGTATTTTGAATATTTGTGTGGACATGTTTGCATAGCCTTCCC
ATTACTAAGACTATTACCTAGTCATAATTATTTTTTCAATGATAATCCTTCATAATTTATTATACAATTTATCAT
TCAGAAAGCAATAATTAAAAAAGTTTACAATGACTGGAAAGATTCCTTGTAATTTGAGTATAAATGTATTTTTGT
CTTGTGGCCATTCTTTGTAGATAATTTCTGCACATCTGTATAAGTACCTAAGATTTAGTTAAACAAATATATGAC
TTCAGTCAACCTCTCTCTCTAATAATGGTTTGAAAATGAGGTTTGGGTAATTGCCAATGTTGGACAGTTGATGTG
TTCATTCCTGGGATCCTATCATTTGAACAGCATTGTACATAACTTGGGGGTATGTGTGCAGGATTACCCAAGAAT
AACTTAAGTAGAAGAAACAAGAAAGGGAATCTTGTATATTTTTGTTGATAGTTCATGTTTTTCCCCCAGCCACAA
TTTTACCGGAAGGGTGACAGGAAGGCTTTACCAACCTGTCTCTCCCTCCAAAAGAGCAGAATCCTCCCACCGCCC
TGCCCTCCCCACCGAGTCCTGTGGCCATTCAGAGCGGCCACATGACTTTTGCATCCATTGTATTATCAGAAAATG
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FIGURE 1801B

TGAAGAAGAAAAAAAATGCCATGTTTTAAAACCACTGCGAAAATTTCCCCAAAGCATAGGTGGCTTTGTGTGTGTG
CGATTTGGGGGCTTGAGTCTGGGTGGTGTTTTGTTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAT
GTCAAAATTGCACAAACATGGTGCTCTACCAGGAAGGATTCGAGGTAGATAGGCTCAGGCCACACTTTAAAAACA
AACACACAAACAACAAAAAACGGGTATTCTAGTCATCTTGGGGTAAAAGCGGGTAATGAACATTCCTATCCCCAA
CACATCAATTGTATTTTTTCTGTAAAACTCAGATTTTCCTCAGTATTTGTGTTTTTACATTTTATGGTTAATTTA
ATGGAAGATGAAAGGGCATTGCAAAGTTGTTCAACAACAGTTACCTCATTGAGTGTGTCCAGTAGTGCAGGAAAT
GATGTCTTATCTAATGATTTGCTTCTCTAGAGGAGAAACCGAGTAAATGTGCTCCAGCAAGATAGACTTTGTGTT
ATTCTATCTTTTATTCTGCTAAGCCCAAAGATTACATGTTGGTGTTCAAAGTGTAGCAAAAAATGATGTATATTT
ATAAATCTATTTATACCACTATATCATATGTATATATATTTATAACCACTTAAATTGTGAGCCAAGCCATGTAAA
AGATCTACTTTTTCTAAGGGCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTCCTTTCTGAGACTTTGCTTAAT
ACTTGGTGACCTCACAATCACGTCGGTATGATTGGGCACCCTTGCCTACTGTAAGAGACCCTAAAACCTTGGTGC
AGTGGTGGGGACCACAAAACAACCAGGGAGGAAGAGATACATCATTTTTTAGTATTAAGGACCATCTAAGACAGC
TCTATTTTTTTTTTGCCACTTTATGATTATGTGGTCACACCCAAGTCACAGAAATAAAAAACTGACTTTACCGCT
GCAATTTTTCTGTTTTCCTCCTTACTAAATACTGATACATTACTCCAATCTATTTTATAATTATATTTGACATTT
TGTTCACATCAACTAATGTTCACCTGTAGAAGAGAACAAATTTCGAATAATCCAGGGAAACCCAAGAGCCTTACT
GGTCTTCTGTAACTTCCAAGACTGACAGCTTTTTATGTATCAGTGTTTGATAAACACAGTCCTTAACTGAAGGTA
AACCAAAGCATCACGTTGACATTAGACCAAATACTTTTGATTCCCAACTACTCGTTTGTTCTTTTTCTCCTTTTG
TGCTTTCCCATAGTGAGAATTTTTATAAAGACTTCTTGCTTCTCTCACCATCCATCCTTCTCTTTTCTGCCTCTT
ACATGTGAATGTTGAGCCCACAATCAACAGTGGTTTTATTTTTTCCTCTACTCAAAGTTAAAACTGACCAAAGTT
ACTGGCTTTTTACTTTGCTAGAACAACAAACTATCTTATGTTTACATACTGGTTTACAATGTTATTTATGTGCAA
ATTGTCAAAATGTAAATTAAATATAAATGTTCATGCTTTACC

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FIGURE 1802

AAVTLGPPVLRRGKSSDRGTCPPGAGTRAPGRPDEARRDRRGARLCGSAWRGTRGECGLGRDERDFSQMLDICLE
KRVGTTLAAPKCNSSTVRFQGLAEGTKGTMKMDMEDADMTLWTEAEFEEKCTYIVNDHPWDSGADGGTSVQAEAS
LPRNLLFKYATNSEEVIGVMSKEYIPKGTRFGPLIGEIYTNDTVPKNANRKYFWRIYSRGELHHFIDGFNEEKSN
WMRYVNPAHSPREQNLAACQNGMNIYFYTIKPIPANQELLVWYCRDFAERLHYPYPGELTMMNLTQTQSSLKQPS
TEKNELCPKNVPKREYSVKEILKNWTPPLQGKDLYRSNISPLTSEKDLDDFRRRGSPEMPFYPRVVYPIRAPLPE
DFLKASLAYGIERPTYITRSPIPSSTTPSPSARSSPDQSLKSSSPHSSPGNTVSPVGPGSQEHRDSYAYLNASYG
TEGLGSYPGYAPLPHLPPAFIPSYNAHYPKFLLPPYGMNCNGLSAVSSMNGINNFGLFPRLCPVYSNLLGGGSLP
HPMLNPTSLPSSLPSDGARRLLQPEHPREVLVPAPHSAFSFTGAAASMKDKACSPTSGSPTAGTAATAEHVVQPK
ATSAAMAAPSSDEAMNLIKNKRNMTGYKTLPYPLKKQNGKIKYECNVCAKTFGQLSNLKVHLRVHSGERPFKCQT
CNKGFTQLAHLQKHYLVHTGEKPHECQVCHKRFSSTSNLKTHLRLHSGEKPYQCKVCPAKFTQFVHLKLHKRLHT
RERPHKCSQCHKNYIHLCSLKVHLKGNCAAAPAPGLPLEDLTRINEEIEKFDISDNADRLEDVEDDISVISVVEK
EILAVVRKEKEETGLKVSLQRNMGNGLLSSGCSLYESSDLPLMKLPPSNPLPLVPVKVKQETVEPMDP

FIGURE 1803

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GCCTAGGAACATTTTTTTAAGGACTCAGCTGTGGCTTTTAGGGCTTGGTTCATACCATGGGGGAAAAAAAAGTCCT
AGGAGAAAGCGACGTGGCTCATTAGTGTTGCCTCTTCAGTGCTCAAGCCGCCTGGTGGATTCCTATGACACAGGG
GGCCTGGAAAGAAAGGGAAAGTGGATTTAAAATATATATATACGTAACCCAAGCCCCATAACCCCTAACTGGACA
AATGAGGTCTGTTTCTTTGGGCCTGAGGCTGTGCATATAAAGTCTTATTTTGGGACTTTACAAACTTGTCCTAAC
TATCTTGTGGATAGTGGGCTGTGACAATCTGGAATAGAGAACGTTCACACTTCGCTCCTTTAAAGAAGCGACCCC
AGATCTGCAAGGGAGTAGATTCTGCTATCTTGGCCTCACAGCCCTTCCTGTTGATTACAAAGCCCGTGGAAGAAA
ACAGAACACACCCTCCTCAGTTCCGTCTAAATGTGTTTCTTCTGCTTCAATTACACCAGTTCTGGGGCAAAGACA
CTGATGAAACAACACCCATACCTGAAAAGAATAAATGTGTGACTTTCAAATCCCCTTTCGCAGTGAAAGAAACAG
CAAACACTTAAGATTCAGCATCTGTTCTCCAGTTGCACTGAGGAATGCACTGTCTCGCAGCACCAGCTCTGCAGA
GCCCTTGCCCCAGACTCTTTGCGGTTTTATTTATATGTATTTCCATATTTCATTCCTGTGTGTCACTGCTGCATT
GGTGTGGCAGCAAGTGACCAAATGCTACAGGTCTTACTATGGACACCAGGTCAGGTGCAACCACACAAAACAAAG
CCAGTTCCATGAGCTGCCTATGATATGCATTGCGGAAGTAACATTTTACCCAGGGTGTGCCATTGCAGTGATATA
AATATATTTTTTTCTTAGACTAAATATGAGCTGACTATCTCTTTTGATGTGTGTACATAGGTGTGAGTGTGTSTG
TATGCGTGCCTGTCTGTGTGCGGGTGTGTGTATGTGCRTAGCCTCATGCTTAGGACTACCCATGAATGTTGTGGA
ATGCTACACCTGGAGAGTTCTGGTTTTCCACCAGTTTCAAGATGAAGAACTACATGATACAGTGGACCTGGAGAC
CATCCCCTTGGAAAGACAACCCAGAGATGTTCAGCATCCTGTATCTACACGCATCCTGTATCTACACGTGTATTT
TGTAGCTGTCACACTAACCTTAATAAGAATTCTACAGCTTTGGACAGAGGCATTTTCACCTTAATGGYGAAGTAA
TTTAAAATATAAATCCATTCAGGTGACAACCCATCATCAAAATTACAAATTTTCTGATTGAACTCATCTGAATCA
TCAGTTCCTTGATGGAGAGAGAGAAGGAGATGGAATGTGTCTGGTAACCCCAAATGGAGTACAAGTAGCCTTTGT
TTTCCTGCATAAATGGACTTGTTGAATGCGAACGAATATATGCAATTCATATACTTTTGGAGATGAACGTAGATA
TGTGTGTCAGCTTTGAGATGGTGTGYCCYGGATTAATACTTTGTCTCCCCAATATCACAGAAAAATACATGCCCA
GTGACTCTTGAGGTTAAGGTAGTTGGGATGAAATGGCCTCAGGCAATTTCACATTCCCTAATTACCTGGAAAGTT
CTACAGTAATTAATATGCAGCTAACTCCTGTTGCCCTCACAAGAGCATCAGCCTTCTAGAATCGGAGCTCCGGAG
TGTGAAGATTCAGTATTGATATGATATGTATACCAAACTCCAGCCAACTTACTGCCATTTTTCATAATCTGAGTG
GCTGCCTTGCTTATCCTAAGCTGTGGTTGCAGAAACCGTGGCCATTTATATAAGCTATAACATCAAATCAGGGAA
AAATGAGGAAAAAAAATAGATTCTGAACCATTTATTGTTGAATAAGTAGAGAAAATCATCAATAAATATTTATTA
CATTCTGACAGGGTGTGTGGCATTGTGTTCTATGCCAGAGTGACAAAGTTGATTCACCCCTTTTTGGGGACCTTA
ATATATTTTTTAAGGGATGTGCCTATGCATTGATGCCTGAAAAATATGTATAAAGAAATGAGGTTGACTCTTCTG
AGCAGTTCATCTTTTCCAGAGGTAAGGGTAGGAGGCCAACTTCAGGATCTGGGTCTRAGCCCGTGGGSAAGCCCT
GGCCGAGTGAGCTCCAATGCTAACTCATGTGCCGATCTCTAGAGCAGTGGGAAACTACCCCGCTGCACCAAATCA
AGTAGCTTCACCTTGTGTATGCAGGCCCCAAGTTATTTTTTAGCAATCTTACGAGTGAAATGTTCTGGTGGGTTG
AAAAACGTTCTTATTTTAAAGAAAGGTTGTGCTCGCTACACTGCTGGTGTGTGCRTTCTGAGACCTCTTGTATTC
CAATCTGTGAAGGGATATGTGTATTAATCCGTACACCCGTATAGCCTCAATATTTGTCTGAAGACACTTAAATTC
TGACCCATAAGGAAAGTTCCTAGAXGCCAATATTTTCACTTATTTAACATTCTCCAAACAACATCAAGCATTGAT
ACACACTGAAGAGTGCGTTTATTTTTTGTATCACTCTAAGTATGTTGGAATATGCAAGGACTGTGGTTCAAATTA
GAATGTATAAGGCATATTATAATTTAGTTCATACTGAAAAAGAAATTAACAGAACATTGTTCGGTTCACACGTTC
CAAAATTTGAGTGATTTCTGGAGTTAGACATAGATTTTCTATTTTGTTTTAATTTGTCAAGGTATTTTTCTTCCC
TTCATGAACTTTAGGTACACATAACTTATGTCATTTATTTATGGTCTTTTATACCTAGTTTGTAAAATTGTAAAA
TAGCAAACTAAATGCAAAGAGTTTGCATTTGAAAATAATAAAGTAGTTACCGTATACAACCCTGCAAAAAAAAAA
AAAAAAAACTCGAG
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FIGURE 1804

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AAGCTTTCCTCTTTGCATTTTGGCATTTGAAAACTCCGAAGAGCGGTTTTTGTTTTTTATTTAAAGAAGATGATA
CATATGTGTACCCGATTCAAAACTAGAGAATAGAATTTAAAACATAATTTTCAAAGTCTTCAAATATGCCTAAAG
GTAACAATGTCATCTTTTAATTGCCAATTTCTCTACCACTTTCAAAAAATTACTTCCAAGGATTTAATGAGCTCC
TTCCTTTCAACAGAAAATGGACTATTTTCCTTTCAGATTTACTATATGCTGTCACTCCAGCTTTATAACCGCATG
TGCATACACAAACATTTCTTTCTCTCTTGCAGGTGGCACAAACCAGGAAGGGGAAATCTGTGGTTTAAATTCTTT
ATGCCTCATCCTCTGAGTGCTGAAGGCTTGCTGTAGGCTGTATGCTGTTAATGCTAATCGTGATAGGGGTTTTTG
CCTCCAACTGACTCCTACATATTAGCATTAACAGTGTATGATGCCTGTTACTAGCATTCACATGGAACAAATTGC
TGCCGTGGGAGGATGACAAAGAAGCATGAGTCACCCTGCTGGATAAACTTAGACTTCAGGCTTTATCATTTTTCA
ATCTGTTAATCATAATCTGGTCACTGGGATGTTCAACCTTAAACTAAGTTTTGAAAGTAAGGTTATTTAAAAGAT
TTATCAGTAGTATCCTAAATGCAAACATTTTCATTTAAATGTCAAGCCCATGTTTGTTTTTATCATTAACAGAAA
ATATATTCATGTCATTCTTAATTGCAGGTTTTGGCTTGTTCATTATAATGTTCATAAACACCTTTGATTCAACTG
TTAGAAATGTGGGCTAAACACAAATTTCTATAATATTTTTGTAGTTAAAAATTAGAAGGACTACTAACCTCCAGT
TATATCATGGATTGTCTGGCAACGTTTTTTAAAAGATTTAGAAACTGGTACTTTCCCCCAGGTAACGATTTTCTG
TTCAGGCAACTTCAGTTTAAAATTAATACTTTTATTTGACTCTTAAAGGGAAACTGAAAGGCTATGAAGCTGAAT
TTTTTAATGAAATATTTTTAACAGTTAGCAGGGTAAATAACATCTGACAGCTAATGAGATATTTTTTCCATACA
AGATAAAAAGATTTAATCAAAAAATTTCATATTTGAAATGAAGTCCCAAATCTAGGTTCAAGTTCAATAGCTTAG
CCACATAATACGGTTGTGCGAGCAGAGAATCTACCTTTCCACTTCTAAGCCTGTTTCTTCCTCCATATGGGGATA
ATACTTTACAAGGTTGTTGTGAGGCTTAGATGAGATAGAGAATTATTCCATAAGATAATCAAGTGCTACATTAAT
GTTATAGTTAGATTAATCCAAGAACTAGTCACCCTACTTTATTAGAGAAGAGAAAAGCTAATGATTTGATTTGCA
GAATATTTAAGGTTTGGATTTCTATGCAGTTTTTCTAAATAACCATCACTTACAAATATGTAACCAAACGTAATT
GTTAGTATATTTAATGTAAACTTGTTTTAACAACTCTTCTCAACATTTTGTCCAGGTTATTCACTGTAACCAAAT
AAATCTCATGAGTCTTTAGTTGATTTAAAAAA
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FIGURE 1805

MSSFLSTENGLFSFQIYYMLSLQLYNRMCIHKHFFLSCRWHKPGRGNLWFKFFMPHPLSAEGLL

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FIGURE 1806

GGTGAAATGGGGATGGAAAAGGGTTATATAAAAACAAATAATGGTAACAATAATGATGAAGATTGGAGTACTCCA
TCTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCATGTTCATTATAGTTCATTACAGTTACATA
GTCCGAAGGTCTTACAAC**TAA**TCACTGGTAGCAATAAATGCTTCAGGCCCACATGATGCTGATTAGTTCTCAGTT
TTCATTCAGTTCACAATATAACCACCATTCCTGCCCTCCCTGCCAAGGGTCATAAATGGTGACTGCCTAACAACA
AAATTTGCAGTCTCATCTCATTTTCATCCAGACTTCTGGAACTCAAAGATTAACTTTTGACTAACCCTGGAATAT
CTCTTATCTCACTTATAGCTTCAGGCATGTATTTATATGTATTCTTGATAGCAATACCATAATCAATGTGTATTC
CTGATAGTAATGCTACAATAAATCCAAACATTTCAACTCTGTTAGAATAGAGGTAATTGTGTGGTTTGTGTATGG
GACTATAACAGTAATATTAATTCCCAAAATTTCTCCTACTAGGAACAGTGGGTA

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FIGURE 1807

GEMGMEKGYIKTNNGNNNDEDWSTPSXXXXXXXXXXXXXXXMFIIVHYSYIVRRSYN

FIGURE 1808

CTATTTTTTAAAACGGAGGTACTGAAAAAGATCGGGAGATTTTCTATTCCTCTATCAATGGGGATTTCCAGGCAC
GTGCCCCACCCAAGGCCCACGCCCAGAGCGCCCGAGTGGCAGGACAACGCCCGCTGACATCTTCCCGTCCCGACG
GCACAGGCTACTCCGAGCTCCGCCTTTTAGATTGCACCGAGAGAAGCCAGCTACAGCTTGGAGTCCAGGCCGGGT
TTTCAAGCATCAAGACGGAAGTAACAGCGGAAAGGAAGTTCCAAGGCCCGCGCTGGGAAAAAGGTGGGGGGACCA
GGGGAAGACTCGGAGTGCG**ATG**GCGGCGCAAATTCCAATTGTGGCCACCACTTCCACTCCCGGAATAGTCCGGAA
CAGCAAGAAGAGGCCGGCCAGCCCTTCCCACAATGGCAGCAGCGGCGGGGGCTATGGCGCCAGTAAGAAGAAAAA
AGCGTCCGCTTCCAGCTTTGCGCAGGGTATCAGCATGGAAGCCATGAGTGAGAATAAAATGGTGCCCTCTGAGTT
TAGCACAGGACCTGTGGAAAAAGCTGCCAAACCTTTGCCATTTAAGGATCCCAACTTTGTGCACTCTGGCCACGG
TGGCGCAGTAGCTGGCAAGAAGAACAGAACCTGGAAGAACCTGAAACAAATCCTCGCTTCTGAAAGGGCATTGCC
GTGGCAACTGAACGATCCTAACTACTTCAGTATTGATGCTCCTCCATCCTTTAAGCCAGCTAAGAAGTATTCTGA
TGTTTCAGGTCTGCTTGCCAACTACACAGACCCCCAGAGCAAACTGCGGTTCAGCACCATTGAAGAGTTTTCCTA
CATTCGGAGGCTGCCCTCTGACGTCGTCACCGGCTACCTGGCCCTGAGGAAGGCCACGAGCATCGTTCCC**TGA**GC
CCCAGAAAGGGAGATGAAATGGAAAGCTGTTTCAAAAACAGACTCTGGACTCATGATTTTGTTTCACGGAAACAA
ACTCGTTCTGCTGTCAATCTGAAAATGCCAGTGCTGTGCCTTGGAAAGAATGTTTGGCTTTAATTTAAGGGTTTT
TTTTTTTTTTTAGTGTGTGTTTTCCCTCCAAGTGTGATATTTCCTGCTGAATTAAATTATACTTCAGTTGTTGCC
TCAAGTAAAGGTGTTTGACAAGAAGATACAATAAAACCATACTTTTCATTTAAAAAA

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FIGURE 1809

MAAQIPIVATTSTPGIVRNSKKRPASPSHNGSSGGGYGASKKKKASASSFAQGISMEAMSENKMVPSEFSTGPVE
KAAKPLPFKDPNFVHSGHGGAVAGKKNRTWKNLKQILASERALPWQLNDPNYFSIDAPPSFKPAKKYSDVSGLLA
NYTDPQSKLRFSTIEEFSYIRRLPSDVVTGYLALRKATSIVP

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FIGURE 1810

ATGGCTTTAGAGATCCACATGTCAGACCCCATGTGCCTCATCGAGAACTTTAATGAGCAGCTGAAGGTTAATCAG
GAAGCTTTGGAGATCCTGTCTGCCATTACGCAACCTGTAGTTGTGGTAGCGATTGTGGGCCTCTATCGCACTGGC
AAATCCTACCTGATGAACAAGCTGGCTGGGAAGAACAAGGGCTTCTCTGTTGCATCTACGGTGCAGTCTCACACC
AAGGGAATTTGGATATGGTGTGTGCCTCATCCCAACTGGCCAAATCACACATTAGTTCTGCTTGACACCGAGGGC
CTGGGAGATGTAGAGAAGGCTGACAACAAGAATGATATCCAGATCTTTGCACTGGCACTCTTACTGAGCAGCACC
TTTGTGTACAATACTGTGAACAAAATTGATCAGGGTGCTATCGACCTACTGCACAATGTGACAGAACTGACAGAT
CTGCTCAAGGCAAGAAACTCACCCGACCTTGACAGGGTTGAAGATCCTGCTGACTCTGCGAGCTTCTTCCCAGAC
TTAGTGTGGACTCTGAGAGATTTCTGCTTAGGCCTGGAAATAGATGGGCAACTTGTCACACCAGATGAATACCTG
GAGAATTCCCTAAGGCCAAAGCAAGGTAGTGATCAAAGAGTTCAAAATTTCAATTTGCCTCGTCTGTGTATACAG
AAGTTCTTTCCAAAAAAGAAATGCTTTATCTTTGACTTACCTGCTCACCAAAAAAAGCTTGCCCAACTTGAAACA
CTGCCTGATGATGAGCTAGAGCCTGAATTTGTGCAACAAGTGACAGAATTCTGTTCCTACATCTTTAGCCATTCT
ATGACCAAGACTCTTCCAGGTGGCATCATGGTCAATGGATCTCGTCTAAAGAACCTGGTGCTGACCTATGTCAAT
GCCATCAGCAGTGGGGATCTGCCTTGCATAGAGAATGCAGTCCTGGCCTTGGCTCAGAGAGAGAACTCAGCTGCA
GTGCAAAAGGCCATTGCCCACTATGACCAGCAAATGGGCCAGAAAGTGCAGCTGCCCATGGAAACCCTCCAGGAG
CTGCTGGACCTGCACAGGACCAGTGAGAGGGAGGCCATTGAAGTCTTCATGAAAAACTCTTTCAAGGATGTAGAC
CAAAGTTTCCAGAAAGAATTGGAGACTCTACTAGATGCAAAACAGAATGACATTTGTAAACGGAACCTGGAAGCA
TCCTCGGATTATTGCTCGGCTTTACTTAAGGATATTTTTGGTCCTCTAGAAGAAGCAGTGAAGCAGGGAATTTAT
TCTAAGCCAGGAGGCCATAATCTCTTCATTCAGAAAACAGAAGAACTGAAGGCAAAGTACTATCGGGAGCCTCGG
AAAGGAATACAGGCTGAAGAAGTTCTGCAGAAATATTTAAAGTCCAAGGAGTCTGTGAGTCATGCAATATTACAG
ACTGACCAGGCTCTCACAGAGACGGAAAAAAAGAAGAAAGAGGCACAAGTGAAAGCAGAAGCTGAAAAGGCTGAA
GCGCAAAGGTTGGCGGCGATTCAAAGGCAGAACGAGCAAATGATGCAGGAGAGGGAGAGACTCCATCAGGAACAA
GTGAGACAAATGGAGATAGCCAAACAAAATTGGCTGGCAGAGCAACAGAAAATGCAGGAACAACAGATGCAGGAA
CAGGCTGCACAGCTCAGCACAACATTCCAAGCTCAAAATAGAAGCCTTCTCAGTGAGCTCCAGCACGCCCAGAGG
ACTGTTAATAACGATGATCCATGTGTTTTACTC**TAA**

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FIGURE 1811

MALEIHMSDPMCLIENFNEQLKVNQEALEILSAITQPVVVVAIVGLYRTGKSYLMNKLAGKNKGFSVASTVQSHT
KGIWIWCVPHPNWPNHTLVLLDTEGLGDVEKADNKNDIQIFALALLLSSTFVYNTVNKIDQGAIDLLHNVTELTD
LLKARNSPDLDRVEDPADSASFFPDLVWTLRDFCLGLEIDGQLVTPDEYLENSLRPKQGSDQRVQNFNLPRLCIQ
KFFPKKKCFIFDLPAHQKKLAQLETLPDDELEPEFVQQVTEFCSYIFSHSMTKTLPGGIMVNGSRLKNLVLTYVN
AISSGDLPCIENAVLALAQRENSAAVQKAIAHYDQQMGQKVQLPMETLQELLDLHRTSEREAIEVFMKNSFKDVD
QSFQKELETLLDAKQNDICKRNLEASSDYCSALLKDIFGPLEEAVKQGIYSKPGGHNLFIQKTEELKAKYYREPR
KGIQAEEVLQKYLKSKESVSHAILQTDQALTETEKKKKEAQVKAEAEKAEAQRLAAIQRQNEQMMQERERLHQEQ
VRQMEIAKQNWLAEQQKMQEQQMQEQAAQLSTTFQAQNRSLLSELQHAQRTVNNDDPCVLL

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FIGURE 1812A

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ATTATGGGCTGTGGGTGCCGCTGAGCAAGATGGAGCTGTCTGCAGTGGGCGAGCGGGTCTTCGCGGCCGAATCCA
TCATCAAACGGCGGATCCGAAAGGGACGCATCGAGTACCTGGTGAAATGGAAGGGGTGGGCGATCAAGTACAGCA
CTTGGGAGCCCGAGGAGAACATCCTGGACTCGCGGCTCATTGCAGCCTTCGAACAAAAGGAGAGGGAGCGTGAGC
TGTATGGGCCCAAGAAGAGGGGACCCAAACCCAAAACTTTCCTCCTGAAGGCGCGGGCCCAGGCCGAGGCCCTCC
GCATCAGTGATGTGCATTTCTCTGTCAAGCCGAGCGCCAGTGCCTCCTCGCCCAAGCTGCACTCCAGCGCAGCCG
TGCACCGGCTCAAGAAGGACATCCGCCGCTGCCACCGTATGTCCCGCCGTCCCCTGCCCCGCCCGGACCCGCAGG
GGGGCAGCCCCGGACTGCGCCCGCCCATTTCGCCCTTCTCGGAGACGGTGCGCATCATCAACCGCAAGGTGAAGC
CGCGGGAGCCCAAGCGGAACCGCATCATCCTGAACCTGAAGGTGATCGACAAGGGCGCTGGCGGCGGGGGCGCCG
GGCAGGGGGCCGGGGCGCTGGCCCGCCCCAAAGTCCCCTCGCGGAACCGCGTTATAGGCAAGAGCAAGAAGTTCA
GCGAGAGCGTCCTGCGTACACAGATCCGCCACATGAAGTTCGGCGCCTTTGCGCTGTACAAGCCTCCGCCCGCCC
CCCTGGTAGCCCCGTCCCCCGGCAAGGCTGAGGCCTCAGCCCCGGGCCCTGGGCTACTTCTGGCCGCCCCCGCCG
CCCCCTACGACGCCCGCAGCTCTGGCTCCTCCGGCTGCCCCTCGCCTACACCACAGTCCTCTGACCCCGACGACA
CGCCCCCCAAGCTCCTCCCCGAGACCGTGAGCCCATCCGCCCCCAGCTGGCGCGAGCCGGAGGTGCTCGACCTGT
CCCTCCCTCCCGAGTCGGCAGCCACCAGCAAGCGGGCACCGCCTGAGGTCACAGCTGCTGCCGGCCCGGCACCTC
CCACGGCCCCTGAGCCCGCCGGTGCCTCCTCCGAGCCCGAGGCTGGGGACTGGCGCCCCGAGATGTCACCCTGCT
CCAATGTGGTCGTCACCGATGTCACCAGCAACCTCCTGACGGTCACAATCAAGGAATTCTGCAACCCTGAGGATT
TCGAGAAGGTGGCTGCTGGGGTAGCAGGCGCCGCTGGGGGCGGTGGCAGCATTGGGGCGAGCAAGTGAGGGGGCT
CCACCAAGGAGGGGGGCTTGGGGGGGCCCTCCTGCCCGAAGTCATACTCTTGCTCCCACCCCACCCTTGCCCCCA
GCCCTCTCTCCCTGTGCTTTGCTTGTCTCAAATGGCTCGGTGTTGACCCAGGGATGGGGCTGGGTAGTTGGGGTC
CCAGAAAGCCGGGGGGTAGGGGCCACCCTGGAATGGGGCAGGGGAAGGGCACACCCCCTGCCCATGCATGGTAGCC
CACTGGGTGGTTTCTGGAAAGCCCTAGAAACTAGGGTTCCTCTGCCCCTTCCACATCCCACCTGTCTCTCTAGCT
TGCTTCCTGCTCTCCTGTGCGGCGTCTGATTTCTCGGTGCTAACCTGGCAGCTGTGGGGCCCTTAGGAGCCCCCC
ACCGAGGGTGGACACAGTCCCTTTCCTTCCTGCAGATGCCTAGGCAGGAGGAGGGCTTCCTGCCTGTTTGGCAAA
GTCCCAGGCAGAGGCCAAGGATGAGGCCTGACTCGGCTCCTCCCTCCACATCAGCCAGGGCATCAGAAGTTGGGC
CAGGGCGGGGTCTTCCCTGCTCGATTTTGGACGAGGCCTAAGTAGACCCCCTATGCCCTGCCCCAGCCCTGGCTC
TTTCCTAACCCCCTCAACGGTGGGAGGAACTGGCAGAGGGTGCGCCTGGCCACAGCCTCCCCGCATCTAAAGGCC
CCTTCAGTTCTTGACCAAAGGTGCTACGAGAACCTGCCGTGGAAACTTCCAGTTGTGCGTCTGCCCCACTCGCTG
TGTTTGTCCGTGGGTTCATACATGCATTGGGTGCTAGGCCCCAGGCTGCCGGGTGGCACCCTTTACAGTTCCTTT
GAACAGGGGCATTGAAGGCCTGGACTGCCTCTCGCCTCAGTAGGCCTGGGGACCAGGCTTGGGTCTGGAGGTTTG
CTGTGGAAGTCACCAGGCCTCCCCTCCTGGCCCAGGTGTGCTGGGGGCACCGTGCCCCCCACCCCCCTGCCCTCC
TCAGGGTGGTCAGCCCAACCTGTCGGACCTTCACTTCACATCATGGTGGGGACCGAGATAGAGAGGGAGACCCCA
TTCCAAGCTCCCTCTTCCTCCGGGTGTTTGGGGAGGATGCTGAAGAATCCATTCCCGAGGGCCTCCCGGCTTGTC
CCAGCCCCTCTTTTGCTTCTGACCACGGAGGCTTTCTCACAGCCCAGCCTGCCTGAAGCAAAGGAGGCTCCCGTG
TCCTGGGCAGCTTCTGTTTCCCTCTGCTGCCTGGGAGCTGAGGCACCCGTGCCAGTGGCAGAGGCCACAGCCCCA
GCCTTAGGCCAGGCCCTGGGAGGGCAGGCAGGCAAAGGGGAGACCAGAGGGTCTGTGTTCTCCAGGAGAATGAGG
GTGTTGGTCCCAGAATTGGGACCGGGGCCCCGCTGGCCAGCCCTGGGCCACTTCCCGGGTCTCCATTGTGCGTGG
GTGGCGTGTTCCAGGCGTGGCTGGAGCTGGCTTCCTGGCTGTGCTGCCATGGGCCCCTCCCTCAGAAGCACGTTG
GCAGGAGGCCGATCAGAACCCTAGCGCCTTTGGTCCTAAGAATGGGAGGCTGCCTTCCTTCCCAATCTCCCTGCC
AGGGCCCACAGCGTGGCCCTAGCCCTCCCCTCCCCGGGATGTAGAACGGGGACCCTCGCAGGGTTGGGGCGGGGG
CTGATACTCCTCGGCCCCTCCCTACCCTGCCCTGTGTGTTGGCTTTGTGGCCGTCCAAGTGCCAATTGGCTTTTC
GCCCAAATAAGGGCTGGTATTTCTCCTCTGTCCTTGGAGGTGATTTCCCCCTGACCCCCTCCCCCAGGTGAGTGA
CCACCTGGGTGCCAGTTACAGGTGTTTCCAGAGACCATAGAAATGTGTTTTCCTGAGAGTTCGTGTCATTCGTGA
CTTTTTTGTAAAGAAGTTGTGTTTTCAGAGGTGATTTTATGACAGGAAAGTGAAAGAATTAGTTTTGCAAAAAAA
CAAAAACAAAAAAAGAGGAAAAAAAAAAGAAATAGAAAAAAATATTGTGGGATTCCTATGGGGGGGTGGCGGGGG
AGAAAGAGCTATTTAAGAAAAAAATAGTAACGCAGTGATTGCACAGGTGAGGTGGCAATGTCAGGATGGGGCGGAG
GCCTGGGCCCAGCTGGCAGGTCCCCTGGCATCGCAGGCACTGTGGAGAGGGCCTGGACCCAGATCTCCACACCCG
TGCTTGCTCAAAGGGAAGGACAACAGCGGGCCCCGGGAGCTAACCCAAGCTGCAGGTCCCGGCAAGCTGAGGTT
TGGGAGGGTGGGGGTTGTCACTGGTGATTTTCTCCAGGGGGCTGGTGAGTGGGCAGTTTGGTTTCTTGCCCCCTT
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FIGURE 1812B

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CTGTTCCTTTCCCAGTTGTTGGGCCATCTGGTCCCCACCACCGCCACCCTATGGGGGAGACCTCCCTCCCCACGG
GTCACCCTAAAGCCCACAACCTCTCTGAGCCTCCCTGGCCTGAAAGGGGATGCAGGCTTCAGGAGGCAAGAAGCT
GGGCCCCTGGGGGTGGCTGGGGAGAGGGAATGCATTTCCCTTGCCACAGGTGGTCTGCTTCTGCTGGCCTGAGCT
CCAAGTGGAGCAGCCCGGGCCAGCCTTGGTGCATGAAGAGGCACCAGGCACACCGCCTTGAGGTGGGCAGTGCCC
ATGGGGGCCCGAGTGGATGGGACCGAGGGTGAGTGGAGCCTCCTTCCTCCCCTCTCTAGTACCCCCGCCTCCCAC
ACACTTGCACGGATCGGCCTCCCTTGGGAGATCAGCCTCCATGGGCCCCTCGTCCACCCTTGCTGCTTTCCATTT
GCCTAATTACCAAGCAGAAGTTGCAATCTGGTTTGCTTTATTTTTGTATGTGAAATAACCCCCAAAGCCCAATCT
CCTCCTACGTTCAATATTGGTTGGGGCATCCGTCATCTCCCCTTAAGTGCGCCCCCTCCCCACCCAAGTATCATA
GGAAACCGGTGAGGTCTGGTGTCTCTGGTTTGAGACGGTAAGTTGGGACCCATCCCTGTCTGGGTGCCCACTCTG
ACCTTTAGTTTGCCCTTCTGTGAAATGGGTGTATTGGGTAGCAAGCCCTCTTCAGAAAGCGCTGCTGGTGTCAGA
GCAGCTGCCCAGTACCAGGTGGGGGGTCAAGGTTGCTGGTACTGGGGCCCCCAGCTGCCCACAACCCCTCTTTGT
TCTCACCCTGCAAAGGGGTCAAGGTCAAAATGAGCCTCATCCTTCCTATGATCTGGGAAGAGGTGATGATCAAGT
CCCCAACTTCAGTGTGAGGTGGACAGAGTTGGGGGGATGGCCCCTTTTTGAAGAGGTGAAAATGGTTTTGGAGAA
GCGCAGCTGCTTCACTGGGGGAATGCGGCAGGGACTGGGGCCCAGGATGCTTTGGCCTATGGGGAAAAGCCCTTT
AAAAGGCAGGGCCCAGGCCCTGGAGCCAGCACAAGACTGGCCTCGAGCCCCTGAGCCAGGAGGTCCTGGAGGAGA
GCCAGGCCGGTGGGCCCGCCCAAGGCTGGAGGGTCAGCCCCAACAGGGAGCTGGGTTGGCCAGGGGGCTGGACTG
CTACCAGCCTCTCTGGCCTATGGGGACCCAAGAGGACACATCCCCCTTTTGCCCACTCTTCTGTGTCATTTTGTT
GTTTTGGTTTGTGGTGGTTTTTCTTTTTTCTTTTGTTTTTCTTTTTTCTTTCTTTCTTTTTTTTTTTTTTTTTT
TTTTTTTGCACTTCGCCCACACAGGACAGTGGAGCCCCACCTGGTCAGTTCCACTTCCGGGCTCCCATGCACTT
GCCCAAGGCGGCCTCTTTGGGACGGGGATGGTTTGAGGAAACACTTTTAAAGAAAAAAGGAAGACATTGAAAGGT
TTTAGTTTCTTCCCTATCTGCATGTCCTCTCATATAGAAAGCCCAGAATTAGGGGCTAGAACTCCAGGAGAGGGT
CTCCCCGACTCATCTCTTGCTGACGGTCACCAGGATGCAGAAATAGGGAGATGGTTAGTGGGGGCCAAAGATGCC
CCCTCCCAGGCCTTCGTGGTTCCCTCCTCCGCCCCCTGCAATCTTTGGAGGAGTCAGTGCCTCACTCCAGCAGTG
AGTGCCTACTGTATGCAGGTAGTCAGCCAGGCAAAGAGAGACTAACGGTCTCATGGGGGAACCCTCTTGCGGGAG
GCCGGGTAGCTGGAGCGAAGCGTTCCGGCTGCCCTTGCTGCTGGGTGGAGTGGAGAGGGAGACTTCTTTTTGTTG
GTTTTAATTTAAAAACACAAAGGCCTAAAGAAATACGTATCTTATAATTTTTTTAATTTTTGAGACGTTCATTTA
ATGAATTGTGCACGAATGAATTCTATATATATAAAATATACATATATAGCTCTATATTTGGGGAGGGGCACTGTC
TCTTTTTTCTCTCATTTTTAAAATGAAGTGTTGTTGCCTTTGTATGTGGTTCAACCATCCAGCTCCCAGCTGGCT
AAACTTTGCCTCCAGTGGTCAAAGATGGGAAAAGAGTGGGGTTGGCAGGAGATGGAAAACGGAGGTGCCGCCCCA
GCATGGGGGGCAGGTCCCCCAGTCCACCCTGCCCCTCCCCCTGTGGAGAAGACGCTTAGTTGGGGGTGTGGGTTT
GGGCTCCATTCTGGATTCGGCGGTTCCGGGGGAGGGGTGGGTCTGTGCCGATTACTCTGTCTTGTACGTTTGTTC
TGCTGCTCTTCAATATTGTATCAACGCCAGGAAAGGGGGGTGAAAAGCCTCTTTTACCCCCCAAATAAATTGTCA
CATTCCGAAGCTGA
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FIGURE 1813

MELSAVGERVFAAESIIKRRIRKGRIEYLVKWKGWAIKYSTWEPEENILDSRLIAAFEQKERERELYGPKKRGPK
PKTFLLKARAQAEALRISDVHFSVKPSASASSPKLHSSAAVHRLKKDIRRCHRMSRRPLPRPDPQGGSPGLRPPI
SPFSETVRIINRKVKPREPKRNRIILNLKVIDKGAGGGGAGQGAGALARPKVPSRNRVIGKSKKFSESVLRTQIR
HMKFGAFALYKPPPAPLVAPSPGKAEASAPGPGLLLAAPAAPYDARSSGSSGCPSPTPQSSDPDDTPPKLLPETV
SPSAPSWREPEVLDLSLPPESAATSKRAPPEVTAAAGPAPPTAPEPAGASSEPEAGDWRPEMSPCSNVVVTDVTS
NLLTVTIKEFCNPEDFEKVAAGVAGAAGGGGSIGASK

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FIGURE 1814

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ACGCGCGCCCTGCGGAGCCCGCCCAACTCCGGCGAGCCGGGCCTGCGCCTACTCCTCCTCCTCCTCTCCCGGCGG
CGGCTGCGGCGGAGGCGCCGACTCGGCCTTGCGCCCGCCCTCAGGCCCGCGCGGGCGGCGCAGCGAGGCCCCGGG
CGGCGGGTGGTGGCTGCCAGGCGGCTCGGCCGCGGGCGCTGCCCGGCCCCGGCGAGCGGAGGGCGGAGCGCGGCG
CCGGAGCCGAGGGCGCGCCGCGGAGGGGGTGCTGGGCCGCGCTGTGCCCGGCCGGGCGGCGGCTGCAAGAGGAGG
CCGGAGGCGAGCGCGGGGCCGGCGGTGGGCGCGCAGGGCGGCTCGCAGCTCGCAGCCGGGGCCGGGCCAGGCGTT
CAGGCAGGTGATCGGTGTGGCGGCGGCGGCGGCGGCGGCCCCAGACTCCCTCCGGAGTTCTTCTTGGGGCTGATG
TCCGCAAATATGCAGAATTACCGGCCGGGTCGCTCCTGAAGCCAGCGCGGGGAGCGAGCGCGGCGGCGGCCAGCA
CCGGGAACGCACCGAGGAAGAAGCCCAGCCCCCGCCCTCCGCCCCTTCCGTCCCCACCCCCTACCCGGCGGCCCA
GGAGGCTCCCCGGCTGCGGCGCGCACTCCCTGTTTCTCCTCCTCCTGGCTGGCGCTGCCTGCCTCTCCGCACTCA
CTGCTCGCCGGGCGCCGTCCGCCAGCTCCGTGCTCCCCGCGCCACCCTCCTCCGGGCCGCGCTCCCTAAGGGATG
GTACTGAATTTCGCCGCCACAGGAGACCGGCTGGAGCGCCCGCCCCGCGCCTCGCCTCTCCTCCGAGCAGCCAGC
GCCTCGGGACGCG**ATG**AGGACCTTGGCTTGCCTGCTGCTCCTCGGCTGCGGATACCTCGCCCATGTTCTGGCCGA
GGAAGCCGAGATCCCCCGCGAGGTGATCGAGAGGCTGGCCCGCAGTCAGATCCACAGCATCCGGGACCTCCAGCG
ACTCCTGGAGATAGACTCCGTAGGGAGTGAGGATTCTTTGGACACCAGCCTGAGAGCTCACGGGGTCCACGCCAC
TAAGCATGTGCCCGAGAAGCGGCCCCTGCCCATTCGGAGGAAGAGAAGCATCGAGGAAGCTGTCCCCGCTGTCTG
CAAGACCAGGACGGTCATTTACGAGATTCCTCGGGAGTCAGGTCGACCCCACGTCCGCCAACTTCCTGATCTGGCC
CCCGTGCGTGGAGGTGAAACGCTGCACCGGCTGCTGCAACACGAGCAGTGTCAAGTGCCAGCCCTCCCGCGTCCA
CCACCGCAGCGTCAAGGTGGCCAAGGTGGAATACGTCAGGAAGAAGCCAAAATTAAAAGAAGTCCAGGTGAGGTT
AGAGGAGCATTTGGAGTGCGCCTGCGCGACCACAAGCCTGAATCCGGATTATCGGGAAGAGGACACGGGAAGGCC
TAGGGAGTCAGGTAAAAAACGGAAAAGAAAAAGGTTAAAACCCACC**TAA**GATGTGAGGTGAGGATGAGCCGCAGC
CCTTTCCTGGGACATGGATGTACATGGCGTGTTACATTCCTGAACCTACTATGTACGGTGCTTTATTGCCAGTGT
GCGGTCTTTGTTCTCCTCCGTGAAAAACTGTGTCCGAGAACACTCGGGAGAACAAAGAGACAGTGCACATTTGTT
TAATGTGACATCAAAGCAAGTATTGTAGCACTCGGTGAAGCAGTAAGAAGCTTCCTTGTCAAAAAGAGAGAGAGA
GAGAGAGAGAGAGAAAACAAAACCACAAATGACAAAAACAAAACGGACTCACAAAAATATCTAAACTCGATGAGA
TGGAGGGTCGCCCCGTGGGATGGAAGTGCAGAGGTCTCAGCAGACTGGATTTCTGTCCGGGTGGTCACAGGTGCT
TTTTTGCCGAGGATGCAGAGCCTGCTTTGGGAACGACTCCAGAGGGGTGCTGGTGGGCTCTGCAGGGCCCGCAGG
AAGCAGGAATGTCTTGGAAACCGCCACGCGAACTTTAGAAACCACACCTCCTCGCTGTAGTATTTAAGCCCATAC
AGAAACCTTCCTGAGAGCCTTAAGTGGTTTTTTTTTTTGTTTTTGTTTTGTTTTTTTTTTTTTGTTTTTTTTTT
TTTTTTTTTTTTTTACACCATAAAGTGATTATTAAGCTTCCTTTTACTCTTTGGCTAGCTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTAATTATCTCTTGGATGACATTTACACCGATAACACACAGGCTGCTGTAACTGTCAGGACA
GTGCGACGGTATTTTTCCTAGCAAGATGCAAACTAATGAGATGTATTAAAAATAAACATGGTATACCTACCTATGC
ATCATTTCCTAAATGTTTCTGGCTTTGTGTTTCTCCCTTACCCTGCTTTATTTGTTAATTTAAGCCATTTTGAAA
GAACTATGCGTCAACCAATCGTACGCCGTCCCTGCGGCACCTGCCCCAGAGCCCGTTTGTGGCTGAGTGACAACT
TGTTCCCCGCAGTGCACACCTAGAATGCTGTGTTCCCACGCGGCACGTGAGATGCATTGCCGCTTCTGTCTGTGT
TGTTGGTGTGCCCTGGTGCCGTGGTGGCGGTCACTCCCTCTGCTGCCAGTGTTTGGACAGAACCCAAATTCTTTA
TTTTTGGTAAGATATTGTGCTTTACCTGTATTAACAGAAATGTGTGTGTGTGGTTTGTTTTTTTGTAAAGGTGAA
GTTTGTATGTTTACCTAATATTACCTGTTTTGTATACCTGAGAGCCTGCTATGTTCTTCTTTTGTTGATCCAAAA
TTAAAAAAAAAATACCACCAAC
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FIGURE 1815

MRTLACLLLLGCGYLAHVLAEEAEIPREVIERLARSQIHSIRDLQRLLEIDSVGSEDSLDTSLRAHGVHATKHVP
EKRPLPIRRKRSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCNTSSVKCQPSRVHHRSV
KVAKVEYVRKKPKLKEVQVRLEEHLECACATTSLNPDYREEDTGRPRESGKKRKRKRLKPT

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FIGURE 1816

CGCTGCTTAGGCTCCGCGGCCTCCAAGCTGTAGCT**ATG**ACGGCGCGCGGGACTCCGAGCCGCTTCTTGGCCAGCG
TTCTCCACAACGGACTGGGTCGCTATGTGCAGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCT
CGTCTCGCGGCGCCAGGGAGTTCGTGGAGCGGGAGGTGATCGACTTCGCCCGACGGAATCCAGGGGTCGTAATAT
ATGTAAACTCGCGTCCGTGCTGCGTGCCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCA
TCCACTGCAAGTCGGTCGAGGAGATCTCGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGCTTGGACGTGATCC
GCATCCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAGTGGACCCCTTCACCAACAAGCCGACCAC
GTTCCGCGGGCTACGCCCCCGAGAGGTTCAGGATCCTGCCCCAGCCCAGGTGCAAGCACAGTGAAGAGTTGCCCC
ACCAACTGCAGCCCCAGGCTTTGGACTGTTACTCCGGTAAAGGTGGTTCTTCCCCTTTGGGATTCCAAGCCCAGG
CAAATGGAACCCATCAATGGGCAAGT**TGA**CAGAGGTTCTGCTTGGGATAATGAAGAGCTGCCTGTTTCTTTCCAG
TGCCTGCTTCTGGGGGCAGTGACCTTGTGAACCACTCATTTTTATGCAAGTGGCATCCCTAAAACCTGAGATGAG
GAAGACTTCAAGGGTTTTACAGGGCCCTTGTTTTTTAAATCCAAATTGATAATAATGATCTCAAAACACAGTGAG
AGGTCTGAAGGCTGGCTTCTGAAGAATCCCTGATGTCTTATTGGAACAACCACTGAGCTACGGAGAGCTCTGCTG
TGATGGGCTAGGCACTTTATATCTGTGTGAATACAGATTTATAAAACAGGTTAATAAACTTATCCAAGGTCA

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FIGURE 1817

MTARGTPSRFLASVLHNGLGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPGVVIYVNSRPCCVPRV
VAEYLNGAVREESIHCKSVEEISTLVQKLADQSGLDVIRIRKPFHTDNPSIQGQWTPSPTSRPRSAGYAPERFRI
LPQPRCKHSEELPHQLQPQALDCYSGKGGSSPLGFQAQANGTHQWAS

FIGURE 1818

ACGAGGCTGAGCGGGACCTGCGAGCAGCGCGGGCGGCAGCCCGGGGGAAGCGTCCGGGACC**ATG**TCTGGAGAACT
ACCACCAAACATTAACATCAAGGAACCTCGATGGGATCAAAGCACTTTCATTGGACGAGCCAATCATTTCTTCAC
TGTAACTGACCCCAGGAACATTCTGTTAACCAACGAACAACTCGAGAGTGCGAGAAAAATAGTACATGATTACAG
GCAAGGAATTGTTCCTCCTGGTCTTACAGAAAATGAATTGTGGAGAGCAAAGTACATCTATGATTCAGCTTTTCA
TCCTGACACTGGTGAGAAGATGATTTTGATAGGAAGAATGTCAGCCCAGGTTCCCATGAACATGACCATCACAGG
TTGTATGATGACGTTTTACAGGACTACGCCGGCTGTGCTGTTCTGGCAGTGGATTAACCAGTCCTTCAATGCCGT
CGTCAATTACACCAACAGAAGTGGAGACGCACCCCTCACTGTCAATGAGTTGGGAACAGCTTACGTTTCTGCAAC
AACTGGTGCCGTAGCAACAGCTCTAGGACTCAATGCATTGACCAAGCATGTCTCACCACTGATAGGACGTTTTGT
TCCCTTTGCTGCCGTAGCTGCTGCTAATTGCATTAATATTCCATTAATGAGGCAAAGGGAACTCAAAGTTGGCAT
TCCCGTCACGGATGAGAATGGGAACCGCTTGGGGGAGTCGGCGAACGCTGCGAAACAAGCCATCACGCAAGTTGT
CGTGTCCAGGATTCTCATGGCAGCCCCTGGCATGGCCATCCCTCCATTCATTATGAACACTTTGGAAAAGAAAGC
CTTTTTGAAGAGGTTCCCATGGATGAGTGCACCCATTCAAGTTGGGTTAGTTGGCTTCTGTTTGGTGTTTGCTAC
ACCCCTGTGTTGTGCCCTGTTTCCTCAGAAAAGTTCCATGTCTGTGACAAGCTTGGAGGCCGAGTTGCAAGCTAA
GATCCAAGAGAGCCATCCTGAATTGCGACGCGTGTACTTCAATAAGGGATTG**TAA**AGCAGGGAGGAAACCTCTGC
AGCTCATTCTGCCACTGCAAAGCTGGTGTAGCCATGCTGGTGAGAAAAATCCTGTTCAACCTGGGTTCTCCCAGT
TACGGAAACCTTTTAAAGATCCACATTAGCCTTTTAGAATAAAGCTGCTACTTTAACAGAGCACCTGGCGTGGGC
CAAGTGCCTGATACTCCCTTACACTGAATCATGTTATGATTTATAGAAATACCTTTCCTGTAGCTTTTATAGTCA
TTGTTTTTCAAAGACGATATACCAGCCCTCACCCAGGTTTTAAAAAAGCACTGGTAGGCATAGAATAGGTGCTCA
GTATATGGTCAGTAAATGTTCTATTGATTATCAATCAGTGAAAAAAAAAAAAAAAAAAAAAAAAAAGGAGATTATAA
AAGGGATGATGAACATGGAGCTGCATCTTTTTAAACGTTGTTTTTTGATGCTTCAGACTCTTAATGCTTTTATAT
AAAGCTATCAACTGTATGTTGATCACAGTTTATAAGAAAGAACAAATCAAGATTGGCAATCCTTGCCGATCTTTT
AGAAATACCTTTTCTGGAGAAAAAAAATCCACATGAAGTGCAATAAGCTTATAAAGCTAAGTAGTTATTAATATT
TCTATTAACATGATACAAAGGATGATGATTGTAAGTGTTTACTGACTGGCAGCTTTTATTTCAGTATTAGCACAG
CGTCTTGCCAGTGTTGGAGGCCATGTATTATTTCAGTTCAACTGGATGAAATGTTAAATAAACTCAGAATGAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1819

MSGELPPNINIKEPRWDQSTFIGRANHFFTVTDPRNILLTNEQLESARKIVHDYRQGIVPPGLTENELWRAKYIY
DSAFHPDTGEKMILIGRMSAQVPMNMTITGCMMTFYRTTPAVLFWQWINQSFNAVVNYTNRSGDAPLTVNELGTA
YVSATTGAVATALGLNALTKHVSPLIGRFVPFAAVAAANCINIPLMRQRELKVGIPVTDENGNRLGESANAAKQA
ITQVVVSRILMAAPGMAIPPFIMNTLEKKAFLKRFPWMSAPIQVGLVGFCLVFATPLCCALFPQKSSMSVTSLEA
ELQAKIQESHPELRRVYFNKGL

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FIGURE 1820

CCTGTCTCAAAAAAAAAAAAAAATATCACCCTTAAATCAACAAAAAGACCTCATGCTCATGCAGTGGACATTTCTT
GGCCTGTTTTCCTGTGGGTTTTCTTCAGCA**TGA**TATGAAGCAACTGTTGGCATAGCCAGTGGGATAAATAAGAAA
TGGAATCATTTGGCTGCCTCGTCACTTGTGCTAATGGTCAGTTGTACACACATGACATGTGGAAGTGACCTGTAG
CAGCGGTCACTCATTTTAACAATTGAACTCTGCTGGGTTGGGTATTTACCTTTGTCTAGAAAAGAAATATGATAT
ATTTTCTCTAAATAAATTTATTTTCATCATTCCAAAA

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FIGURE 1821

PVSKKKKISPLNQQKDLMLMQWTFLGLFSCGFSSA

FIGURE 1822

GTCACCCCCAGCGGGCGCGGGCCGGAGCACGGGCACCCAGC**ATG**GGGGTACTGCTCACACAGAGGACGCTGCTCA
GTCTGGTCCTTGCACTCCTGTTTCCAAGCATGGCGAGCATGGCGGCTATAGGCAGCTGCTCGAAAGAGTACCGCG
TGCTCCTTGGCCAGCTCCAGAAGCAGACAGATCTCATGCAGGACACCAGCAGACTCCTGGACCCCTATATACGTA
TCCAAGGCCTGGATGTTCCTAAACTGAGAGAGCACTGCAGGGAGCGCCCCGGGGCCTTCCCCAGTGAGGAGACCC
TGAGGGGGCTGGGCAGGCGGGGCTTCCTGCAGACCCTCAATGCCACACTGGGCTGCGTCCTGCACAGACTGGCCG
ACTTAGAGCAGCGCCTCCCCAAGGCCCAGGATTTGGAGAGGTCTGGGCTGAACATCGAGGACTTGGAGAAGCTGC
AGATGGCGAGGCCGAACATCCTCGGGCTCAGGAACAACATCTACTGCATGGCCCAGCTGCTGGACAACTCAGACA
CGGCTGAGCCCACGAAGGCTGGCCGGGGGGCCTCTCAGCCGCCCACCCCCACCCCTGCCTCGGATGCTTTTCAGC
GCAAGCTGGAGGGCTGCAGGTTCCTGCATGGCTACCATCGCTTCATGCACTCAGTGGGGCGGGTCTTCAGCAAGT
GGGGGGAGAGCCCGAACCGGAGCCGGAGACACAGCCCCCACCAGGCCCTGAGGAAGGGGGTGCGCAGGACCAGAC
CCTCCAGGAAAGGCAAGAGACTCATGACCAGGGGACAGCTGCCCCGG**TAG**CCTCGAGAGCACCCCTTGCCGGTGA
AGGATGCGGCAGGTGCTCTGTGGATGAGAGGAACCATCGCAGGATGACAGCTCCCGGGTCCCCAAACCTGTTCCC
CTCTGCTACTAGCCACTGAGAAGTGCACTTTAAGAGGTGGGAGCTGGGCAGACCCCTCTACCTCCTCCAGGCTGG
GAGACAGAGTCAGGCTGTTGCGCTCCCACCTCAGCCCCAAGTTCCCCAGGCCCAGTGGGGTGGCCGGGCGGGCCA
`CGCGGGACCGACTTTCCATTGATTCAGGGGTCTGATGACACAGGCTGACTCATGGCCGGGCTGACTGCCCCCCTG
CCTTGCTCCCCGAGGCCTGCCGGTCCTTCCCTCTCATGACTTGCAGGGCCGTTGCCCCCAGACTTCCTCCTTTCC
GTGTTTCTGAAGGGGGAGGTCACAGCCTGAGCTGGCCTCCTATGCCTCATCATGTCCCAAACCAGACACCTGGATG
TCTGGGTGACCTCACTTTAGGCAGCTGTAACAGCGGCAGGGTGTCCCAGGAGCCCTGATCCGGGGGTCCAGGGAA
TGGAGCTCAGGTCCCAGGCCAGCCCCGAAGTCGCCACGTGGCCTGGGGCAGGTCACTTTACCTCTGTGGACCTGT
TTTCTCTTTGTGAAGCTAGGGAGTTAGAGGCTGTACAAGGCCCCCACTGCCTGTCGGTTGCTTGGATTCCCTGAC
GTAAGGTGGATATTAAAAATCTGTAAATCAGGACAGGTGGTGCAAATGGCGCTGGGAGGTGTACACGGAGGTCTC
TGTAAAAGCAGACCCACCTCCCAGCGCCGGGAAGCCCGTCTTGGGTCCTCGCTGCTGGCTGCTCCCCCTGGTGGT
GGATCCTGGAATTTTCTCACGCAGGAGCCATTGCTCTCCTAGAGGGGGTCTCAGAAACTGCGAGGCCAGTTCCTT
GGAGGGACATGACTAATTTATCGATTTTTATCAATTTTTATCAGTTTTATATTTATAAGCCTTATTTATGATGTA
TATTTAATGTTAATATTGTGCAAACTTATATTTAAAACTTGCCTGGTTTCTAAAAAAAAAAAAAAAAAAA

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FIGURE 1823

MGVLLTQRTLLSLVLALLFPSMASMAAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKLREHCR
ERPGAFPSEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQMARPNILGLRNNI
YCMAQLLDNSDTAEPTKAGRGASQPPTPTPASDAFQRKLEGCRFLHGYHRFMHSVGRVFSKWGESPNRSRRHSPH
QALRKGVRRTRPSRKGKRLMTRGQLPR

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FIGURE 1824A

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CCCGGCCCGCCGGGACCGCAGGTAACGGGCCGCGGGGCCCCGCGGGCCAGGAGGGGAACGGGGTCGGGCGGGCGA
GCAGCGGGCAGGGGAGCTCAGGGCTCGGCTCCGGGCTCTGCCGCCGGATTTGGGGGCCGCGAGGAAGAGCTGCGA
GCCGAGGGCCTGGGGCCGGCGCACTCCTCCCGCCCTGTCTGCAGTTGGAAAACTTTTCCCCAAGTTTGGGGCGGC
GGAGTTCCGGGGGAGAAGGGGCCGGGGGAGCCGCGGAGGGAGGCGCCGGGCCCGCGCGTGTAGGGCCCAGGCCGA
GGCCGGGACGCGGGTGGGGCGCAGGCCCGGGTCAGGGCCGCAGCCGGCTGTGCGCCGTGCCCGCCCGGGGCGCTG
CCCCCTCCCTCCCCTGGGAGCTGCGTGGCTCCCCCCTCCCCCCCACCTGCTTCCTGCCTCAGCCTCCTGCCCCGA
TATAACGCCCTCCCCGCGCCGGGCCCGGCCTTCGCGCTCTGCCCGCCACGGCAGCCGCTGCCTCCGCTCCCCGCG
CGGCCGCCGCCCGGGCCCCGACCGAGGGTTGACAGCCCCCGGCCAGGGCGGCGCCAGGGCGGGCACCGCGCTCCC
CTCCTCCGTATCACTTCCCCCAACTGGGGCAACTTCTCCCGAGGCGGGAGGCGCTGGTTCCTCGGCTCCCTTTCT
CCCTACTTGGGTAAAGTTCTCCGCCCTGAATGACTTTTCCTGAAGCGGACATTTTACTTAAATCGGGTAACTGTC
TCCAAAAGGGTCACTGCGCCTGAACAGTTTTCTTCTCGGAAGCCCCAGCACCCAGCCAGGTGCCCTGGGGCGTGC
AGGCCGCCCTGGCCTCCCCTCCACCGGCGGCCGCTCACCTCCTGCTCCTTCTCCTGGTCCGGGCGGGCCGGCCTG
GGCTCCCACTCCAGAGGGCAGCTGGTCCTTCGCCGGTGCCCAGGCCGCAGGGCTGATGCCCCGCTCAGCTGAGG
GAAGGGGAAGTGGAGGGGAGAAGTGCCGGGCTGGGGCCAGGCGGCCAGGGCGCCGCACGGCTCTCACCCGGCCGG
TGTGTGTCCCCGCAGGAGAGTGTGCTGGGCAGACG**ATG**CTGGACACGATGGAGGCGCCCGGCCACTCCAGGCAGC
TGCTGCTGCAGCTCAACAACCAGCGCACCAAGGGCTTCTTGTGCGACGTGATCATCGTGGTGCAGAACGCCCTCT
TCCGCGCGCACAAGAACGTGCTGGCGGCCAGCAGCGCCTACCTCAAGTCCCTGGTGGTGCATGACAACCTGCTCA
ACCTGGACCATGACATGGTGAGCCCGGCCGTGTTCCGCCTGGTGCTGGACTTCATCTACACCGGCCGCCTGGCTG
ACGGCGCAGAGGCGGCTGCGGCCGCGGCCGTGGCCCCGGGGGCTGAGCCGAGCCTGGGCGCCGTGCTGGCCGCCG
CCAGCTACCTGCAGATCCCCGACCTCGTGGCGCTGTGCAAGAAACGCCTCAAGCGCCACGGCAAGTACTGCCACC
TGCGGGGCGGCGGCGGCGGCGGCGGCGGCTACGCGCCCTATGCTATGGCGACGAGCTGGGCCGGGAGCGCGGCTC
CCCCAGCGAGCGCTGCGAAGAGCGTGGTGGGGACGCGGCCGTCTCGCCCGGGGGGCCCCGCTCGGCCTGGCGCC
GCCGCCGCGCTACCCTGGCAGCCTGGACGGGCCCGGCGCGGGCGGCGACGGCGACGACTACAAGAGCAGCAGCGA
GGAGACCGGTAGCAGCGAGGACCCCAGCACCGCCTGGCGGCCACCTCGAGGGCTACCCATGCCCGCACCTGGCCT
ATGGCGAGCCCGAGAGCTTCGGTGACAACCTGTACGTGTGCATTCCGTGCGGCAAGGGCTTCCCCAGCTCTGAGC
AGCTGAACGCGCACGTGGAGGCTCACGTGGAGGAGGAGGAAGCGCTGTACGGCAGGGCCGAGGCGGCCGAAGTGG
CCGCTGGGGCCGCCGGCCTAGGGCCCCCTTTTGGAGGCGGCGGGGACAAGGTCGCCGGGGGCTCCGGGTGGCCTGG
GAGAGCTGCTGCGGCCCTACCGCTGCGGCTCGTGCGACAAGAGCTACAAGGACCCGGCCACGCTGCGGCAGCACG
AGAAGACGCACTGGCTGACCCGGCCCTACCCATGCACCATCTGCGGGAAGAAGTTCACGCAGCGTGGGACCATGA
CGCGCCACATGCGCAGCCACCTGGGCCTCAAGCCCTTCGCGTGCGACGCGTGCGGCATGCGGTTCACGCGCCAGT
ACCGCCTCACCCGGACGCACATGCGCATCCACCCTCGCGGCGAGAAGCCCTACGAGTGCCAGGTGTGCGGCGGCA
AGTTCGCACAGCAACGCAACCTCATCAGCCACATGAAGATGCACGCCGTGGGGGGCGCGGCGGCGCGGCCGGGGC
GCTGGCGGGCTTGGGGGGGCTCCCCGGCGTCCCCGGCCCCGACGGCAAGGGCAAGCTCGACTTCCCCGAGGGCGT
CTTTGCTGTGGCTCGCTCACGGCCGAGCAGCTGAGCCTGAAGCAGCAGGACAAGGCGGCCGCGACCGAGCTGCTG
GCGCAGACCACGCACTTCCTGCACGACCCCAAGGTGGCGCTGGAGAGCCTCTACCCGCTGGCCAAGTTCACGGCC
GAGCTGGGCCTCAGCCCCGACAAGGCGGCCGAGGTGCTGAGCCAGGGCGCTCACCTGGCGGCCGGGCCCGACGGC
GGACCATCGACCGTTTCTCTCCCACC**TAG**AGCGCCCTCGCCAGCCCGCTCTGTCGCTGCTGCGCGGCCCTGGCC
CGCACCCCAGGGAGCGGCGGGGGCGGCGCGCAGGGCCCACTGTGCCCGGGACAACCGCAGCGTCGCCACAGTGGC
GGCTCCACCTCTCGGCGGCCTCACCTGGCCTCACTGCTTCGTGCCTTAGCTCGGGGGTCGGGGGAGAACCCCGGG
ACGGGGTGGATGGGGTAAGGGAAATTTATATTTTTGATATCAGCTTTGACCAAAGGAGACCCCAGGCCCCTCCC
GCCTCTTCCTGTGGTTCGTCGGCCCCTCCCCCGGCTCCGCGCTGCTCTTAGAGGGGGAGGGGTGTCACTGTCGG
GGCACTCCTAGCCCTACCTCCGGCCCTTGCGACCACACCCATTCTCACTGTGAATCTCCCCGCTGGGTCGGAGCG
TCGGGCAGAGTTGGGGAGTGGGGAGGGGACTGAGCCGGCCGGGAGGCCCCCGCACCCCCGCTCCCACCCACCCCGG
GACTGATAATGTGAAGTTCCTCATTTTGCACAAGTGGCACTAGCCCAGGGCCAACCCTTCCTTCCTCAGTCACCA
AGGGCGGGGAGTTCTGGAGTCGGAAGGCGAAGAGCCTACCACCAGGTCTCCCACTCCCGCGGTGCCCTCCCTTCC
CTTCCCTGCGGCCCCGGACCATATTTATTGCATGCGCCCCGGCGGCCCCCCATCCCGAGCCCAGGCTGGGCTGGG
CTGGAACGCGGTCTCTCTTTAGCTCCCTCCTCTTCGTTTGTATATTTCCTACCTTGTACACAGCTCTTCCAGAGCCG
CTTCCATTTTCTATACTCGAACCAAACAGCAATAAAGCAGTAACCAAGGACCCCGACCCCGCTGCTCTCTTCTGC
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FIGURE 1824B

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CCCTGCACAAGGACCTGGATGCTGCGCCCGCTGGGTGGAGGAGCCAGAAAGGGCCACCCTCACACAGGTGCAGAG
GCTTGGACCTGCCTCCCTCCCCAGTCCCAGAAACAGATCAGCAAGAGGTCAGGTATGTTTCATAACTAAAAATTT
ATTAAGGAAACAAAACCAGTGCTGCAAACGGGACAGAAAGGAGAGCTGGGTCTCCCTCCCGACCACCCAGTCATC
GGCCTTCCAGCTGGGGAGAGAATCTTAAAGGAGAGGCCGGGGACCCTGTACTCCAAAGAGCCCAGTCTTCTGAGA
CTCTAGGGGACTCCTACCCCCAAACTACTGGCCTTGGCTCCCCTACACGGTACCCCATCGCTTCTGGCATAGTCC
TGGGCCTCAGGGAGGGCAGAGCTGCGCACCCATCCTCCAGGCAGGCTGTGCAGTCAGGCCATGGGCTCTGGGGTA
TCCCCCACTGGTCCCATTAAGATTTGCCCCTGGCTCCACCGAAAACCCCGTCTTCCCCTAAG
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FIGURE 1825

MLDTMEAPGHSRQLLLQLNNQRTKGFLCDVIIVVQNALFRAHKNVLAASSAYLKSLVVHDNLLNLDHDMVSPAVF
RLVLDFIYTGRLADGAEAAAAAAVAPGAEPSLGAVLAAASYLQIPDLVALCKKRLKRHGKYCHLRGGGGGGGGYA
PYAMATSWAGSAAPPASAAKSVVGTRPSRPGGPRSAWRRRRATLAAWTGPARAATATTTRAAARRPVAARTPAPP
GGHLEGYPCPHLAYGEPESFGDNLYVCIPCGKGFPSSEQLNAHVEAHVEEEEALYGRAEAAEVAAGAAGLGPPFG
GGGDKVAGAPGGLGELLRPYRCGSCDKSYKDPATLRQHEKTHWLTRPYPCTICGKKFTQRGTMTRHMRSHLGLKP
FACDACGMRFTRQYRLTRTHMRIHPRGEKPYECQVCGGKFAQQRNLISHMKMHAVGGAAARPGRWRAWGGSPASP
APTARASSTSPRASLLWLAHGRAAEPEAAGQGGRDRAAGADHALPARPQGGAGEPLPAGQVHGRAGPQPRQGGRG
AEPGRSPGGRARRRTIDRFSPT

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FIGURE 1826

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TGAGCAGTGGGCTGCTTAGGAAGAGAAGGTCAGAGTTCGCGGGGGCAGAGGCATTCTTGCCGCTGGCCCAGTCAC
TATGTAGTGGAGGGGCAGACACCCTCCCGCAAATTCTGGAAGGTTCTTAGTCTCGACTAGGGCAGTAGCCCCAGG
ACTCCTAGTCGCCGGCTTCAGGTCACTGCCGGCTGAACGGAGCTGCCGTCGCC**ATG**TTTGGCTGCTTGGTGGCGG
GGAGGCTGGTGCAAACAGCTGCACAGCAAGTGGCAGAGGATAAATTTGTTTTTGACTTACCTGATTATGAAAGTA
TCAACCATGTTGTGGTTTTTATGCTGGGAACAATCCCATTTCCTGAGGGAATGGGAGGATCTGTCTACTTTTCTT
ATCCTGATTCAAATGGAATGCCAGTATGGCAACTCCTAGGATTTGTCACGAATGGGAAGCCAAGTGCCATCTTCA
AAATTTCAGGTCTTAAATCTGGAGAAGGAAGCCAACATCCTTTTGGAGCCATGAATATTGTCCGAACTCCATCTG
TTGCTCAGATTGGAATTTCAGTGGAATTATTAGACAGTATGGCTCAGCAGACTCCTGTAGGTAATGCTGCTGTAT
CCTCAGTTGACTCATTCACTCAGTTCACACAAAAGATGTTGGACAATTTCTACAATTTTGCTTCATCATTTGCTG
TCTCTCAGGCCCAGATGACACCAAGCCCATCTGAAATGTTCATTCCGGCAAATGTGGTTCTGAAATGGTATGAAA
ACTTTCAAAGACGACTAGCACAGAACCCTCTCTTTTGGAAAACA**TAA**TTTGAATAAAATAATTTTTAATGGATTC
TGAAATTTGTCATGTTTTGAAGATAACTGACTCCATCTAAAAGTATGAGGTCAAAGGATCACGAAACCTAAGTTT
AAAAACTGCTTAGAGACTGAAGCTTAATTAAAAATCTTTATTAAAAATTAAAAACATTGAAAAATGAAAATATGT
TCATCATTAAAGACTTTTTTCCCCTTAAGCTTAAAATACCATTCAAAGGCAAGACATTTTGTTTTGGCTATGATT
CATTTTTTTTACTTAAAAATAAAACCTATACCAAACAGTAGTGTGCCAAGTAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1827

MFGCLVAGRLVQTAAQQVAEDKFVFDLPDYESINHVVVFMLGTIPFPEGMGGSVYFSYPDSNGMPVWQLLGFVTN
GKPSAIFKISGLKSGEGSQHPFGAMNIVRTPSVAQIGISVELLDSMAQQTPVGNAAVSSVDSFTQFTQKMLDNFY
NFASSFAVSQAQMTPSPSEMFIPANVVLKWYENFQRRLAQNPLFWKT

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FIGURE 1828

CGCTGTTGCCTCCGCCACCTCCTCCGCCGCCGCGCGCCCCTCGGGAGTTCCGCGCCCCACC**ATG**CCCAACATCGTG
CTGTTCAGCGGCAGCTCGCATCAGGACCTATCCCAGCGCGTGGCCGACCGCCTGGGCCTGGAGCTGGGCAAGGTG
GTCACGAAGAAGTTCAGCAACCAGGAGACCAGCGTGGAGATTGGTGAAAGCGTGAGAGGGGAAGATGTCTACATC
ATCCAGAGCGGCTGCGGGGAAATTAACGACAACCTGATGGAACTCCTCATCATGATCAATGCCTGCAAGATTGCG
TCATCATCCAGAGTAACTGCCGTGATCCCGTGTTTCCCATACGCCCGACAAGATAAAAAGGACAAGAGTCGTGCC
CCAATTTCTGCAAAACTTGTGGCCAATATGCTGTCGGTGGCTGGGGCGGATCACATCATCACCATGGACCTGCAT
GCTTCTCAGATACAGGGATTCTTTGATATTCCTGTGGATAATTTGTATGCGGAGCCCGCAGTCCTGCAGTGGATT
CGGGAAAACATTGCCGAGTGGAAGAACTGTATCATTGTTTCACCTGACGCAGGGGGAGCCAAAAGGGTTACATCA
ATTGCAGACAGGTTGAATGTGGAATTTGCTTTGATCCACAAAGAGAGGAAGAAGGCGAATGAAGTGGACCGGATG
GTCCTGGTGGGCGACGTGAAGGACCGTGTGGCCATCCTCGTGGATGACATGGCTGACACTTGCGGCACCATCTGC
CATGCTGCGGACAAGCTGCTGTCAGCTGGAGCCACCAAAGTGTATGCTATCCTTACCCATGGGATCTTCTCTGGA
CCAGCTATTTCCAGAATAAATAATGCCGCCTTTGAGGCTGTTGTCGTCACAAACACAATTCCGCAAGAGGACAAA
ATGAAACACTGCACCAAGATTCAGGTCATTGACATTTCCATGATCTTGGCCGAAGCAATCCGAAGGACACACAAT
GGGGAATCCGTGTCCTACCTGTTCAGCCATGTCCCGCTA**TAA**ATCCAGAATGGGAAGTGTCCAGCAAGCCTACTC
TGACTTCTGACTTGTTTTTGTTTTCTGGATTTTTAGCTGTAGGTATTCAGCAATGATAGGTTAATCACTGGCAAA
AGCATCAGATCTTTGTATATGCTAAGATTATTGTTTCCCCTTCTAAAGCTCAAGATCATTTCTTTCCAGTTTTTT
GGGGAAATGGTGGTGGTTATTTGGTCTTTAAGTGAACTGTCTTAAATGAGAAACGTTTTTGTCATTTTGACTTTT
AACAGGTACAGGTGATCTCTTCCTTTGTTCTTTCAGTACTTTGAGGCGACAACTTTCAAGTATATAATTTCATTG
TGGAAGTCATAGTTTATATATTTCGAGGTTGCCAAAGGTGACTTCACATTAAAGCCTTCTGTGTAAATATATACT
GATAATGCCTATGGACATTTGGGTAAAACCCTGTATAGAATTAATTATCCTTTTACTTTGGAGTGAACCTTGGAA
AATTTATAATTATAATACCATGGATTTTGAATTTTCCTTTTTTTTTTTTTTTTGGATAACTCAGTTTCAGATA
AACCATCTTGGTTACTGTGCTTAATTTGGACCAAATTTTATTTAGCTTAATATGGACACTGACACATTTTGGGGG
GTATACATTAGACATATCAGAGCAGTGTATTTCTGGATCATTTTTTAAATGACCTCTTCTAAAACATAACTGTCA
CTTACCTGAAATGCTGCATCCTAAAATTCCAAAATTATATTGAGCAATCGCCAAGGCCTAAAGCCAACTGACTTA
AAGGTAATCATTTCAGCTAAGATTAAAATTTAAAGCCTAAGAATGTATAGAGCTAGTTTTAAAATAATGATCTCAG
ATTTTTAAAAAGGATATAGGAACCTGCATTGTCATTCTCTGAATTAAGAACTGATGGTTTCTATCATTATTTAGC
CCCACCTTTGTATTTTAAAATCCTTCAGAATACATTTATGAACCAATGCGACTGGACTTAGCCACACACAATGGA
AATTCAGACCTTGACTATTGGTGTTTCCAGTTCACAAAGGTGATGAAGACTGTCTTGGGAGCAGCTTAATCCCA
AAATTTGTACATTTCTTGCTGCTCCTGGCGTGGAAACTTAAGTGAGACCACCAAATACATTGGTCCTGTCCAATT
CTACTGAATGGGGGTGGACCTGGCATTTATCTGGCCAAAAACAGGAGCCAGAGAAATATGAATATACCAAAGTTG
TTTGTTTAGCCTCCAACTTAAATTACATTAGTCAACTTATAGATACTCATATGATCACTTTTCTTTTTAGATACT
ACATCAACTAGATTCAGGAGTATATCATTTGCAGTGCTTGTATTGGTTTAAAATGTAAGATTTTAAGATCCTCTA
ACACTGTACTAAAACATTTCAATAAAATCATTCTGACTGCGTTCAAAAAAAAAAAAAA

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FIGURE 1829

MPNIVLFSGSSHQDLSQRVADRLGLELGKVVTKKFSNQETSVEIGESVRGEDVYIIQSGCGEINDNLMELLIMIN
ACKIASSSRVTAVIPCFPYARQDKKDKSRAPISAKLVANMLSVAGADHIITMDLHASQIQGFFDIPVDNLYAEPA
VLQWIRENIAEWKNCIIVSPDAGGAKRVTSIADRLNVEFALIHKERKKANEVDRMVLVGDVKDRVAILVDDMADT
CGTICHAADKLLSAGATKVYAILTHGIFSGPAISRINNAAFEAVVVTNTIPQEDKMKHCTKIQVIDISMILAEAI
RRTHNGESVSYLFSHVPL

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FIGURE 1830

GCGCGGCCC**ATG**GAGTCGGGGCTGCTGCGGCCGGCGCCGGTGAGCGAGGTCATCGTCCTGCATTACAACTACACC
GGCAAGCTCCGCGGTGCGCGCTACCAGCCGGGTGCCGGCCTGCGCGCCGACGCCGTGGTGTGCCTGGCGGTGTGC
GCCTTCATCGTGCTAGAGAATCTAGCCGTGTTGTTGGTGCTCGGACGCCACCCGCGCTTCCACGCTCCCATGTTC
CTGCTCCTGGGCAGCCTCACGTTGTCGGATCTGCTGGCAGGCGCCGCCTACGCCGCCAACATCCTACTGTCGGGG
CCGCTCACGCTGAAACTGTCCCCCGCGCTCTGGTTCGCACGGGAGGGAGGCGTCTTCGTGGCACTCACTGCGTCC
GTGCTGAGCCTCCTGGCCATCGCGCTGGAGCGCAGCCTCACCATGGCGCGCAGGGGGCCCGCGCCCGTCTCCAGT
CGGGGGGCGCACGCTGGCGATGGCAGCCGCGGCCTGGGCGTGTCGCTGCTCCTCGGGCTCCTGCCAGCGCTGGGC
TGGAATTGCCTGGGTCGCCTGGACGCTTGCTCCACTGTCTTGCCGCTCTACGCCAAGGCCTACGTGCTCTTCTGC
GTGCTCGCCTTCGTGGGCATCCTGGCCGCGATCTGTGCACTCTACGCGCGCATCTACTGCCAGGTACGCGCCAAC
GCGCGGCGCCTGCCGGCACGGCCCGGGACTGCGGGGACCACCTCGACCCGGGCGCGTCGCAAGCCGCGCTCGCTG
GCCTTGCTGCGCACGCTCAGCGTGGTGCTCCTGGCCTTTGTGGCATGTTGGGGGCCCCCTCTTCCTGCTGCTGTTG
CTCGACGTGGCGTGCCCGGCGCGCACCTGTCCTGTACTCCTGCAGGCCGATCCCTTCCTGGGACTGGCCATGGCC
AACTCACTTCTGAACCCCATCATCTACACGCTCACCAACCGCGACCTGCGCCACGCGCTCCTGCGCCTGGTCTGC
TGCGGACGCCACTCCTGCGGCAGAGACCCGAGTGGCTCCCAGCAGTCGGCGAGCGCGGCTGAGGCTTCCGGGGGC
CTGCGCCGCTGCCTGCCCCCGGGCCTTGATGGGAGCTTCAGCGGCTCGGAGCGCTCATCGCCCCAGCGCGACGGG
CTGGACACCAGCGGCTCCACAGGCAGCCCCGGTGCACCCACAGCCGCCCGGACTCTGGTATCAGAACCGGCTGCA
GAC**TGA**CACCCTCGGCCCACGACTGTCTTCCCAAGTTTTACAGACTTGTTCTTTTTACATAAAGGAATTTGTAGG
AAATGCAGCCAAAGGTGCAGTCGGAAAAGATGCAGGGGAAATGTATTTATGCAGCGACACCCCACAATGTGAACA
AACAGACAAAAAATCTGTGCCCTCGTGGAATTGACGTTCTGCTTGGGAACACAGAAAAGAACTCGGTGATGAAAT
AATGGAGATGATTCCAGTGACAAACGACAGAGATGGTGATGGTGGTCAGGGAAGACCTCTCTGCAGAGGTAGTGA
CTTGTGATGTGAGCTGAGACCTCTGTCCTGGGAAGACCAAAAGAAAAGCATTTCAGGATGAGGGAATGGCATGCG
CAAAGGCCCTGAGGCTGAAATGTGCCCATGTGTTCTAAGAAATGCAGCGATGCTGGTGTGCCTGGAGCAGGGACG
GAGGGGGAGAATGGGAGGAGACAAGGAGCTGAAGGAGTAGTTCCCGAAGGACCTTGTGGGTGATATAGAGGACTT
CGCTTTTGCTCTGAGTGAGGTGGGAGCCATAGAAGCTTCTAAGCAGAAGAGGGACTTGCCCTAATTCAGGTGATC
ACAGGTGTCTTGTGGCCTCCATGGGAGGTTGAAAACCACAGAAGGTGAAGGGGGGCTGCACTGAGCCACAGGAAC
AATGATGGAGATTCCAGCTAAGCCCAGACCCCGTGGATTCTAGATAGATTTTAGAGGCAGCAGACAGAATTACTG
AGGAATTGAGTGTAAGAGTGGAATAAAGTTATCAAGGACAATGCCAAGGGTGGGGCACCCCCAAATTTGACTTTG
GGAGACTCAGCCAAATCCTATCTGGTAATAAAATTTCTTTTTTATTTTTCTTTTCTTTCTTTCTTTCTTTCTTTC
TTTTTTTTTTTTGAGTTGGGATCTTGTGCTCTGTCACCCAGGCTGGAGTGCAATGGGCACAATTATAGCTCACT
GCAGCCTGGAACTCCTGGGATCAAGCCTGGAGTTCCTGCTTCAGCCTCCCTAGTAGCTGGGACTACAGGCATGCA
CCACCATGCCCAGTTAATAAAATTTCTTCAAATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1831

MESGLLRPAPVSEVIVLHYNYTGKLRGARYQPGAGLRADAVVCLAVCAFIVLENLAVLLVLGRHPRFHAPMFLLL
GSLTLSDLLAGAAYAANILLSGPLTLKLSPALWFAREGGVFVALTASVLSLLAIALERSLTMARRGPAPVSSRGR
TLAMAAAAWGVSLLLGLLPALGWNCLGRLDACSTVLPLYAKAYVLFCVLAFVGILAAICALYARIYCQVRANARR
LPARPGTAGTTSTRARRKPRSLALLRTLSVVLLAFVACWGPLFLLLLLDVACPARTCPVLLQADPFLGLAMANSL
LNPIIYTLTNRDLRHALLRLVCCGRHSCGRDPSGSQQSASAAEASGGLRRCLPPGLDGSFSGSERSSPQRDGLDT
SGSTGSPGAPTAARTLVSEPAAD

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FIGURE 1832

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AAAGTGTAGTGAACTTGGCTTCTCGCAGACTCGTAGAAAGTTAAAAAGGAAGCTACCATCTAAATGGTTTTATTA
TTATTCCAGATATTTTGGTATTGTTTTCTGTATCATGATAGTCTAAAAAACTAGTTTTACTTTTAATATTAATTG
GTATAATAATTAGTTGTTTTTTTTCCCCAGTCACTGAAGATGTGTGCTTAGTTACATAAAGTACATTAATATTTG
TGTTTATAAAATAATACAATATTTATAGTATAATGTTTATATATGTGTTTAAATTGTGACAGCACTGCATCCACT
TGAGGCTCTTTTTTATAGCTACTAGGAGGTTTAGGCACTTGGAGTTAAATTTTAAATGAACCACATATTTTCATT
TTGTTAATGTAGTTTCCCATTTTATGCAAATAAAATATTTAATGGGCTCTCCACTCCTGTGCTCTTGTCCCCTTA
CCGCTACCACCCTAAGAGATTATCATTGTTAACATTTGAGGACATGGTGTTTTGTAACCTGTTGTTTTTTCTTAA
TATGACAATGGCCCATATTTTAGCAGTAAACAAAAAGATACAGAAGATGAAAGCTTAGCCAAACACTGTAAATAG
AAATGGGAAGCTTTTTCATATCGGGGAACGGTGGCTTAATTGATTCTTGGGGAATGGGGGATCAACTAACCATAA
ACAATTTCATTTAGGATTTTTGCATCATGAGGGTATTTGGAGAGAAATATATCATCCTATAATGTGCACAGTAAG
TTTTTCCTAATTTGTTGCTTTGAGGAAAGACACAAAGCAAACTAAACAGCCTTTCATAGATAAATAAGTATACAG
AGAGTGAAAGATATGGGTACAAGTATATAGAGACCTATCAAAAATACATTGCTTGTGGTATTAATTCTCATGTGT
GATTTTAGCATATTAAAAGGCTGTTTTGTGTTTTTAGAACCATAAGAATAAATGGGGATGTTACCTTTCAGTTTG
TTCCAAAGATTGCATGCATCATTACCAAAGCTTGAGTCTTTTTACTCCCCTGTCTTGTTGAGATACCTACTACTT
GAGCATACTCTGGAATGAGAAAGTTTATCGATTAACATGCTGCTTACGCAGATAGGATTAGCATTTCCTTAATTT
AGTATACCACGTGTTGTATCAGGCATAAAAGCCAGCTTTTTTTAGTCATACCCCAATGTTTAAAATTGTTAAATG
CAGACTTCATGTTCTTTTGATCATTTAAATCATGACATGGATATTTTTAATTTTTATATTCTAGTAATTATCAAT
TGTCCTGGTCTGGCTGCTTAGAGTATCAGTTTGCTCAAAATTGCTTGAATCATTAAAGCAAATACTAATTGTGAG
CATTGACCAGATCTTAAGTTAAAAAAAAAAAAGTCGACGC
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FIGURE 1833

KCSELGFSQTRRKLKRKLPSKWFYYYSRYFGIVFCIMIV

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FIGURE 1834

CTAGCTTGTGACCAGCGGGATGCATTGTAAGAAAGTTGTCTGTGGTTAGGAGTGCAGTCTGGGTCCATGGAACAA
ATTTAAACTAATTGGCCCTCGCAATGATCAGTCCTAGGACCCTGGCCTTATTATTAGCATGGTGCTTTAACCAAT
TGTACATAATAATACCACTGATAGTCTACTAATGCATTTCCTAGATCCCAGTTTTTCTTGAATGATTAGGAATGG
TGGGGAGAGGGGAGGGGAGATATTCTACATGATACTTCTCCAATCTTCTAAAGATTATAAGAAAAAATAAAAAAT
TGAAGTCACTTGA

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FIGURE 1835

GACAGTGGAGGGCAGTGGAGAGGACCGCGCTGTCCTGCTGTCACCAAGAGCTGGAGACACCATCTCCCACCGAGA
GTC**ATG**GCCCCATTGGCCCTGCACCTCCTCGTCCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGG
AAGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTG
ACCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCC
GCCAAGGTGCTCAGCGATGCTGGACACAAGGTCACCATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTC
ACCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCCAGCTCTCACAGGATCCTC
CACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTCACCCAGTACGACAAGAACACGTGGACGGAGGTG
CACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCGAGAAGCTGGGCTACGCCTTGCGTCCCCAGGAA
AAGGGCCACTCGCCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGC
AGAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCG
GCCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGGGCC
CACAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGCTGCCGCGCGCGCTGCTG
AGCTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTG
CAGATCGAGACCTCTCCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGCTGCTGACGGCGAGCGGA
CCGGCGGTGAAGCGCATCACCTTCTCGCCGCCGCTGCCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTAC
GTGCCGGCCACCAAGGTGTTCCTAAGCTTCCGCAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCA
AACACCGATCGCCCGTCGCGCATGATTTTCTACCCGCCGCCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACG
TGGTCGGACGCGGCGGCAGCGTTCGCCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCG
GCATTGCACGGGCCTGTCGTGCGCCAGCTCTGGGACGGCACCGGCGTCGTCAAGCGTTGGGCGGAGGACCAGCAC
AGCCAGGGTGGCTTTGTGGTACAGCCGCCGGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGC
CGCATCTACTTTGCCGGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGC
GCCGCCATCAAGATCAACAGCCGGAAGGGGCCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATG
GAGGGGCAGGGGCATGTGCATGGGGTGGCCAGCAGCCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCT
CCAGTCCAAGGCCAGTTATCTCTCCAAAACACGACCCACACGAGGACCTCGCAT**TAA**GTATTTTCGGAAAAA

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FIGURE 1836

MAPLALHLLVLVPILLSLVASQDWKAERSQDPFEKCMQDPDYEQLLKVVTWGLNRTLKPQRVIVVGAGVAGLVAA
KVLSDAGHKVTILEADNRIGGRIFTYRDQNTGWIGELGAMRMPSSHRILHKLCQGLGLNLTKFTQYDKNTWTEVH
EVKLRNYVVEKVPEKLGYALRPQEKGHSPEDIYQMALNQALKDLKALGCRKAMKKFERHTLLEYLLGEGNLSRPA
VQLLGDVMSEDGFFYLSFAEALRAHSCLSDRLQYSRIVGGWDLLPRALLSSLSGLVLLNAPVVAMTQGPHDVHVQ
IETSPPARNLKVLKADVVLLTASGPAVKRITFSPPLPRHMQEALRRLHYVPATKVFLSFRRPFWREEHIEGGHSN
TDRPSRMIFYPPPREGALLLASYTWSDAAAAFAGLSREEALRLALDDVAALHGPVVRQLWDGTGVVKRWAEDQHS
QGGFVVQPPALWQTEKDDWTVPYGRIYFAGEHTAYPHGWVETAVKSALRAAIKINSRKGPASDTASPEGHASDME
GQGHVHGVASSPSHDLAKEEGSHPPVQGQLSLQNTTHTRTSH

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FIGURE 1837

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ATACACATGCAGAAGCTGTGACACGTGCGGAAGCTGTGGTAAGTGCATCCTCCTTCAGTCTCAGTTCTGAAAATA
GATCATCATGGTGGCACCAAAGAGTCACACAGATGACTGGGCTCCTGGGCCTTTCTCCAGTAAGCCACAGAGGAG
TCAGCTGCAAATATTCTCTTCTGTTCTACAGACCTCTCTCCTCTTCCTGCTCATGGGCCCAACTCCTGGGAAACA
TCTCTCCGCTGCATGGCCCGGAACCCCACTGTCCAGCAGATAGAGCCAATCCAGTACCCCAGAGAGGATCTCAGC
CACCTGGGACTGTGGCAGCTACTGTCCTTCTGTGCTCCCGCTTTCTCCAGGGCTTCAGGGATGATGATGCAGGAC
TAAGAGCCTCTGGAAAGGACTCAGCCCCAACAGTGGTGTCAGGGATCCTAGGGGGTTCCGTGACTCTCCCCCTAA
ACATCTCAGTAGACACAGAGATTGAGAACGTCATCTGGATTGGTCCCAAAAATGCTCTTGCTTTCGCACGTCCCA
AAGAAAATGTAACCATTATGGTCAAAAGCTACCTGGGCCGACTAGACATCACCAAGTGGAGTTACTCCCTGTGCA
TCAGCAATCTGACTCTGAATGATGCAGGATCCTACAAAGCCCAGATAAACCAAAGGAATTTTGAAGTCACCACTG
AGGAGGAATTCACCCTGTTCGTCTATGCACCATTTATTGAAAAGTTGTCCGTCCACGTCATCGAGGGTGACCACC
GCACACTCCTGGAGGGCAGCGGCCTGGAGTCCATCATCAGCACCCTGGCTGAGCCACGTGTGAGCGTGCGGGAGG
GC**TAG**GCCCTCGCCCCCACCTGCCACTGGAGACCGCTCCGCCATCCCCACCTCACCGCCGCGCAANAGAGCTGGA
AGGGTCCTGCCGATGGGACCCTGCCAGGCCCAGTGCCACTGCCCCCCGAGGGCTGCTAGACGTGGGGCGTTAGGC
GTGTCCCACCCACCCGCCGCCTCCCATGGGCACGTCGGGAACACCGGAGCCGCCAACTTGGAGACTTCCTGGTCT
GTGAAGAGCCGCTGACGCCCGCAGGAAACCGGGGCTGGGCCTTGTGTGCCAGTCGGGGTTTTGTGCTTGGTCGTT
TCTCCGCTTGGATTTGCTTATTTATTGCATTGCTGGTAGAGACTCCCAAGCCTGTCCACCCTGCAAAGACTCCTC
GGGCAGCATGCGGGTCCCGCACACTGCACCCATTTCCTGGATGTCCCCTGCAGGCGCGGGAGGCCATCCGGGCCT
GCTGGCTGCGGCCCCCTCTCAGCCAGGCCTGGCTCAGCCCACTGCGTGGGAGGTCACCGGCCACTCCCCGAGGAG
CTGGGATCCCCGGGATGCAGGCCCACAGTGCGGGGCTGCACCCATGATGCGGAGCTGGCCTCCAACCCTGCGGGC
CGCGCCAGGCACCAACTCAGTGTTTGTCAGTGTTTGTTTTTCCAAGAAATGGTTCAAATTGCTGCTCAGATTTTT
AAATTTACTGTAGCTGCCAGTGTACACGTGTGGACCCCATTTTATTTTTACACCAATTTGGTGAAAATGCTGCTT
TCCTCAGCCTCCCCACAATTAAACTGCACATGGTCTCTAA
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FIGURE 1838

THAEAVTRAEAVVSASSFSLSSENRSSWWHQRVTQMTGLLGLSPVSHRGVSCKYSLLFYRPLSSSCSWAQLLGNI
SPLHGPEPHCPADRANPVPQRGSQPPGTVAATVLLCSRFLQGFRDDDAGLRASGKDSAPTVVSGILGGSVTLPLN
ISVDTEIENVIWIGPKNALAFARPKENVTIMVKSYLGRLDITKWSYSLCISNLTLNDAGSYKAQINQRNFEVTTE
EEFTLFVYAPFIEKLSVHVIEGDHRTLLEGSGLESIISTLAEPRVSVREG

FIGURE 1839

TTTTTGAAGGCTTAAGCAATCGGGGACGAGCTTTATTGAGGCAATCACATCCACATTTCAGTTGTTTGCAATGAT
TGGCAAACGGATGAGTTAAAAAAGCCTTCTGCTTCCACACTGTTCCGTCTACATTCAGAAAGCAGTAAAAATATA
TTCGTGCAATGAACACTTTCCACCTTAAGCGTATCATGACAGTTCACAAATTTGCCAACAGACAATGCAAAACAA
TATTTACAAGATAGACCCTTTGTAAGTTCCAAATTTAGATACTTGTGGTGTAATTCTAAAACTAACATCGCATGT
TTTTCCAGGT

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FIGURE 1840

GAG**ATG**AAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTT
CCAAGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATGTAAGAGCTTTAAATGCTACCAAA
CTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAG
CATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGG
AATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATGTACTCGCTTTTGTGGGACTTCTTTT
TTCACTGTTGGTGATGACAAAACTGTGAAGCAGTGGAAAATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCA
TTACATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGCCACATGT
GGACAGCAAGTAGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGGATTTGACAGTATA
AGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAATATAGTACTGTAC
GATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAACAAATACAATCTGTTGGAACCCTATG
GAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATAACTTATATACTTTTGATATGCGTGCACTGGACACTCCT
GTAATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCT
GCTAGTTTCGATAAATCTATTCGAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGA
ATGCAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATGAAATGAACATT
CGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGAGAAAAAGCAGCCAAGGATTATAAC
CAGAAATTGAAGGAGAAATTTCAGCATTATCCTCATATAAAACGTATAGCTCGTCATCGACATCTACCAAAATCT
ATCTATAGCCAGATTCAGGAACAGCGCATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACAC
AGCAAGCCTGGATCTGTGCCACTTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAA**TAA**TTGGTATTC
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCTGGGACTAGATT
AATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGCTACCCTGAAAAATGATCCTTAA
AGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCATTCTTCTTTCATTGTAGAATACAGTATTTGCAAC
TCATTTTTTCTTGTTTTTATTACAGATATACTTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAA
TTGACATTTAAGACCAAACATCTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTC
CTGTGATTCCACATAACATTTAGAATAATGATGTCAATTTTTTACAACTG

FIGURE 1841

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MKVKMLSRNPDNYVRETKLDLQRVPRNYDPALHPFEVPREYVRALNATKLERVFAKPFLASLDGHRDGVNCLAKH
PEKLATVLSGACDGEVRIWNLTQRNCIRTIQAHEGFVRGICTRFCGTSFFTVGDDKTVKQWKMDGPGYGDEEEPL
HTILGKTVYTGIDHHWKEAVFATCGQQVDIWDEQRTNPICSMTWGFDSISSVKFNPIETFLLGSCASDRNIVLYD
MRQATPLKKVILDMRTNTICWNPMEAFIFTAANEDYNLYTFDMRALDTPVMVHMDHVSAVLDVDYSPTGKEFVSA
SFDKSIRIFPVDKSRSREVYHTKRMQHVICVKWTSDSKYIMCGSDEMNIRLWKANASEKLGVLTSREKAAKDYNQ
KLKEKFQHYPHIKRIARHRHLPKSIYSQIQEQRIMKEARRRKEVNRIKHSKPGSVPLVSEKKKHVVAVVK
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FIGURE 1842

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CTTCTGTGTGTGCACATGTGTAATACATATCTGGGATCAAAGCTATCTATATAAAGTCCTTGATTCTGTGTGGGT
TCAAACACATTTCAAAGCTTCAGGATCCTGAAAGGTTTTGCTCTACTTCCTGAAGACCTGAACACCGCTCCCATA
AAGCCATGGCTTGCCTTGGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCTACCAGGACCTGGCCCTGCACTC
TCCTGTTTTTTCTTCTCTTCATCCCTGTCTTCTGCAAAGCAATGCACGTGGCCCAGCCTGCTGTGGTACTGGCCA
GCAGCCGAGGCATCGCCAGCTTTGTGTGTGAGTATGCATCTCCAGGCAAAGCCACTGAGGTCCGGGTGACAGTGC
TTCGGCAGGCTGACAGCCAGGTGACTGAAGTCTGTGCGGCAACCTACATGATGGGGAATGAGTTGACCTTCCTAG
ATGATTCCATCTGCACGGGCACCTCCAGTGGAAATCAAGTGAACCTCACTATCCAAGGACTGAGGGCCATGGACA
CGGGACTCTACATCTGCAAGGTGGAGCTCATGTACCCACCGCCATACTACCTGGGCATAGGCAACGGAACCCAGA
TTTATGTAATTGATCCAGAACCGTGCCCAGATTCTGACTTCCTCCTCTGGATCCTTGCAGCAGTTAGTTCGGGGT
TGTTTTTTTATAGCTTTCTCCTCACAGCTGTTTCTTTGAGCAAAATGCTAAAGAAAAGAAGCCCTCTTACAACAG
GGGTCTATGTGAAAATGCCCCCAACAGAGCCAGAATGTGAAAAGCAATTTCAGCCTTATTTTATTCCCATCAATT
GAGAAACCATTATGAAGAAGAGAGTCCATATTTCAATTTCCAAGAGCTGAGGCAATTCTAACTTTTTTGCTATCC
AGCTATTTTTATTTGTTTGTGCATTTGGGGGGAATTCATCTCTCTTTAATATAAAGTTGGATGCGGAACCCAAAT
TACGTGTACTACAATTTAAAGCAAAGGAGTAGAAAGACAGAGCTGGGATGTTTCTGTCACATCAGCTCCACTTTC
AGTGAAAGCATCACTTGGGATTAATATGGGGATGCAGCATTATGATGTGGGTCAAGGAATTAAGTTAGGGAATGG
CACAGCCCAAAGAAGGAAAAGGCAGGGAGCGAGGGAGAAGACTATATTGTACACACCTTATATTTACGTATGAGA
CGTTTATAGCCGAAATGATCTTTTCAAGTTAAATTTTATGCCTTTTATTTCTTAAACAAATGTATGATTACATCA
AGGCTTCAAAAATACTCACATGGCTATGTTTTAGCCAGTGATGCTAAAGGTTGTATTGCATATATACATATATAT
ATATATATATATATATATATATATATATATATATATATTTTAATTTGATAGTATTGTGCATAGAGCCACGTAT
GTTTTTGTGTATTTGTTAATGGTTTGAATATAAACACTATATGGCAGTGTCTTTCCACCTTGGGTCCCAGGGAAG
TTTTGTGGAGGAGCTCAGGACACTAATACACCAGGTAGAACACAAGGTCATTTGCTAACTAGCTTGGAAACTGGA
TGAGGTCATAGCAGTGCTTGATTGCGTGGAATTGTGCTGAGTTGGTGTTGACATGTGCTTTGGGGCTTTTACACC
AGTTCCTTTCAATGGTTTGCAAGGAAGCCACAGCTGGTGGTATCTGAGTTGACTTGACAGAACACTGTCTTGAAG
ACAATGGCTTACTCCAGGAGACCCACAGGTATGACCTTCTAGGAAGCTCCAGTTCGATGGGCCCAATTCTTACAA
ACATGTGGTTAATGCCATGGACAGAAGAAGGCAGCAGGTGGCAGAATGGGGTGCATGAAGGTTTCTGAAAATTAA
CACTGCTTGTGTTTTTAACTCAATATTTTCCATGAAAATGCAACAACATGTATAATATTTTTAATTAAATAAAAA
TCTGTGGTGGTCGTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1843

MACLGFQRHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLR
QADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIY
VIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTEPECEKQFQPYFIPIN

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FIGURE 1844A

GTGAAATTGAAGTTTGTGTATATGAAAGTTATCTTAGACATATTTTTAATTCTCCAGTTTCTGCAAAATAAT**TAA**

AATATACAGTAACTGGTCTCCTAAATCCTGAATTTAATGTATTAAATACTTATGTTCTTTATATTGGTGCCTTTT
TAAAATGCATTGAGAGTGTTGGTTAGCTGTTGCAGCTGTACAACACTTTTAATATGCATTTTTAAAAATCACTTA
AAATTGAGTACTATATAATTCATCTCTGCATTTTTAGTGCAAATCTTTAGAGCAATTTCTAATAGAGAAATTTTC
AGCTCAGCTGTTAAAAGGAAAAGGAAACTTTGAAACTAGACTTTACTACCTTTTTAGTTTCATAGTATTTCTGAA
TATGATTACAAGATTATGCAGGTAAAATATAGAGTGAAACTTTACCTGTGAATTGAATTATAATTTGTGTTTTTG
TTTTGTTTTTAAGGAAGAATAAGTTCTGTATCAAACAAGAATTTATTAGATAATTTTTTGGTCAATAAAATACAG
TATTCATTTGGATTTTCATCTCCAGACTAGTATTGTTCTAGTCTTGGAATCTGTATTTTCTAATCTGTTAGAAAA
TAGAGATTGAAAATTGATGGAATAATGTGAAAAAGCAGGTAATTAATTCTCCTTGAACAAAGCAAAACTGAACAG
TCATATCACATTGCTATTCTCCAAAGCATAATCTCAAATGGTTTCATATCATGGTTGTGTATTACTTGCAATGGG
TGTGTTAGGATATGACAGCTTTTTAAAAAAATGAGCTGCTGGTTATACAAAGCAAATGGCATATGACCAAGAAGC
TGTGATATGCTAGTGTTTCTTTTTATCATAGTGTATTACTAGGCCAAATAATGACACCTTGAATATTTTTACATT
TATTGCAGAAACCTTAAACTTGGAATTTCCATAAGGTTTTTATGTAATATTCTATTTCTAGCTTTTTAGTTTTAT
CTTGCTGTACTGTAAGTTTGAGGATATTTTTCACCTGCACTCTTAGGAATAAGTTCATAATTCTGTTTATGGGGC
TTTCCTCCCATAACACTGCATTTGTATATTTTCTGTATAAAATATGTGTTGTGTATTAACCTTTATCCCATACAG
AGAGTGGTACATGAATGACTAGTTTTCTAAGATGTCCTTTTTATTGTGAATAAAATATAAAAGTTAAAGGCCCTC
TGCTAAGTCACATAAAGTACAGCATATAAGTTCATATAGGTACAAATAAATGAGTTTGCAGTGGATTGGGCCTTC
AAATTACCTCAAGTGACAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTACTATGCACT
TATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTTTTTAAAAAATGACTACACTGTAACAAGGGAAGGG
ATCTGGGTTTTTTTGTTGTTTTATTCTTGTTTTTTTTAAGTAGTTCAAATTCTGAAACTGTGATTTAAAAATTTT
TTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCCTTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTT
AAATTTTGTTACATCTCCCTCAGCCTCTTTCTTTGTCCGTCTCCCTTCTGTCATTGTCTATGGATGTTTACCTCT
CTGTTCTCCTAAAAGTTTGAAGATTAGGTCAACTCTTATTTCTAGTTCATTGGTAATTTAATCCTAATTTTTTTT
TCGTGATTTTTGTTGGTTGTATAATCTGCTGACGTATTTTTATACTCAAGTGTAGTTTTCTATTAAAAAGAAAAG
TGGTTGGATTAAAAATAGTAAGCTATGTAACCCTCATGTTACTTTCACTTTCAAATATTGGGTACCTAAAACATT
ACTTCAGAGATTATGTAATCCTATTATAGTATGTTTGCTTTCCTTTATTGTTGGATTTTACATTCTGATTTGGCT
TTCCTCCAAAAAATGTATATCATGAAAGACTAGACAGTTATTTGCAAGTGTTTAGAAAGGTGTTAAAAATGTAAA
GCAAAGAGTCTTAACTTTCTCCTAATTGGGAGAAAAATGCTTTAACATTACTATAATAATATTCCAGGTTTGGAG
GGGGTCTCCAGGCCCCATATTTGCTGTTAATAGTTGGACCTTTTAGACCATGTGTTATTTGCAATCCCAGAATGA
TTGCTTCTGCTATTAGTTAAAAAGATACTATTCTTTTCTTTCTGTACAAGTGCAATACTCCCCTTGAAGTCTTAA
AAACTATGGTGATTTTTTTTTCTTTTCTGACCTATTCTTCCTTTAGCTAATGACAAAAAGAAACTCATAAAAGTC
ATAGTATGTTAAAGGACACAACAAGCAAAGAGAAAAACACTCCACAATCAAAAGATTACAGAATGTGGAAACCAC
TAGTCTGATCTCATGGTATCTTTATTTAAGCTAAATTTCCATGGAAATTAGTAATCTTTTGCTTGAAAAATGTGT
CCTAAAGTTGAACTTTTTACAGATTGAATCTTCTTAGACCCTCGCCCAATGCTCTAAATTAAGAACCTAATACTT
AATATTTTTATTTTACTTCTCCCCTTTTAGAAATAAACTTTTAAATAAAAGCAAAGCACTTAGCTGAGTTTTAAA
CACTTACATATCACCTATTGGAGAAATTTTTTTTAAAAATATTTGGAGCAGTCCTGTTTTCATACAAATTTAAG
TAAGAGGTATTTTTCTTATACATATTTATATGTAGTGTGCTAATTTTCTTTTTTTATACCTGTGTCCCTGTAGTA
AAACTGCTGTAATATAAATACATGTTTTGTTAAAAGATAACATTTCTTTGGCATTTCTTTTAAAGGCAGTTACTG
CATTTCTGCATTTGTACAGTATGTGTCTTGGCCATTTTAGATATTCTTTCTTTAACAATACCAAAGGTAATTAGA
CTATTTTAAAGACTAATTGCTTGACAGTTTCTAGGGTATTTTGTGTTTTAGAAGCAAAAAAAGAAAAAAAAATAG
GTCAAACCAGTAAACCTCATTTTTTTTCAAACTAATAATTTGGGGAAATAAAAACTATTGTTANNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAGTTAAAATTCCATACCTTGTATGTCAGGTTTGCTAAGTGTAAT
GTAGTTTTTTTTAAGGCTCAAATACCATACCTCAGAAATGAGGTTTACTATGGAAATACTGAAACAGTCTTTGC
AGCTGTGTGACAAGTCACTCTACTACATACTGATTTGGAGACCTCCGCTAAATAGTTTTATCACTGCAGACTAAA
ATGTGGGACTTGTATCTTCTTTGTTTTTAATGCACACACATACATGTTCTGTGCATGTATGTGGTTACTGTGTAT
ATGTGTATGAGTGTTGTATATGCATGTGTGAGTGTGTGTCTGTATGTGTGTACAACTAAAGAAGCTGCAGAAACT
TTGTAATACTTTGTGAAAAGGATTATATTATAAAGGTTTGTACTGTCTGAGTGCACAGCTACTGGAATAAATTTA
GGGAATCTCAGGAACAAGCATATAATTTGTCCAAGATTTATTTCTTCTCAGAAGTGTAAGTGCAGTTTTTAATTC

FIGURE 1844B

TGTATATTATTTAATATTTTACCAATAAAATAAACTTCTGACATACAGAAGTCCTAGGTCTTTACTCTTAAGTTT
GACCTTCTACAGAGTCCTAGAGCATGGAGACAATGCAGCCAGTTCTTTGTTTATACTAACAAGGTTTGGTCCAGT
TCCTAATAAATTCTTAATTTGTATCTGAGATGTCAGCTTGGCCTTTACTGTCTATATTTGTATGAACATTTTGAT
CAC

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FIGURE 1845

VKLKFVYMKVILDIFLILQFLQNN

FIGURE 1846

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GAGCTATAAGACAACAGGACTGAACAGGGAGCCAACTGTTTCTTTGAACAGTAAATCAGGAACACCAATGGACCA
AAATGAACACAGTCACTGGGGACCACATGCAAAGGGCCAATGTGCCAGCAGATCTGAGCTGAGAATCATCCTGGT
GGGCAAAACAGGAACTGGCAAAAGTGCTGCAGGGAACAGCATCCTCAGGAAGCAAGCATTTGAATCGAAGCTGGG
TTCCCAGACCTTGACTAAGACTTGCAGCAAAAGTCAGGGAAGCTGGGGAAATAGAGAGATTGTCATTATTGACAC
ACCAGATATGTTTTCTTGGAAGGACCACTGTGAAGCTCTGTACAAAGAGGTGCAGAGGTGCTACTTGCTCTCTGC
ACCAGGACCCCATGTGCTGCTCCTGGTGACTCAGCTGGGCCGCTATACCTCACAGGACCAGCAGGCTGCACAGAG
GGTGAAGGAGATCTTTGGAGAGGATGCCATGGGACACACAATTGTCCTCTTTACCCACAAGGAAGACCTCAATGG
TGGCTCCCTGATGGATTACATGCACGACTCAGATAACAAAGCCCTAAGCAAGCTGGTGGCAGCATGTGGTGGGCG
AATCTGTGCCTTTAATAACCGTGCTGAAGGGAGCAATCAGGATGACCAAGTGAAGGAACTAATGGACTGTATTGA
GGATCTGTTGATGGAGAAAAATGGTGATCACTATACCAATGGGTTGTACAGCCTAATACAGAGGTCTAAATGTGG
ACCTGTGGGATCAGATGAAAGAGTAAAGGAATTCAAACAGAGCCTTATAAAGTACATGGAAACTCAAAGAAGTTA
CACAGCCTTGGCTGAAGCAAACTGCCTAAAAGGAGCCTTAATCAAAACACAACTGTGTGTTTATTTTGTATTCA
GTTGTTTCTCAGATTGATAATTCTGTGGCTTTGCATACTGCACAGCATGTGCAATTTGTTTTGTTGCTTACTCTT
TAGTATGTGCAATTTATTCTGCAGTTTGCTGTTTATTATACCCAAAAAGTTAATGATATTTTTGAGAACAGTTAT
TAGACTAGAACGCAAGACTCCTAGGTTA**TAG**TTACAGATCCCAGTTATTATTTACTCACTATCATTTAGTGGGTG
AATCACAGTAATTTCCCTGTAAAATGTGGTACCTGAAGTCATATTTGAGATTCTATGAAATGTTTAAATCTTAAC
ATCACTCCAATTATTAATGAACCAAATCATACGATAAGTTACTGTTTGCATTGAAATATAATATCAAAGCCTTTT
GAAATCTGTAAACATAAAATTCCTCTCATTTTCAAATAAAAAAAAAAAAAAAA
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FIGURE 1847

SYKTTGLNREPTVSLNSKSGTPMDQNEHSHWGPHAKGQCASRSELRIILVGKTGTGKSAAGNSILRKQAFESKLG
SQTLTKTCSKSQGSWGNREIVIIDTPDMFSWKDHCEALYKEVQRCYLLSAPGPHVLLLVTQLGRYTSQDQQAAQR
VKEIFGEDAMGHTIVLFTHKEDLNGGSLMDYMHDSDNKALSKLVAACGGRICAFNNRAEGSNQDDQVKELMDCIE
DLLMEKNGDHYTNGLYSLIQRSKCGPVGSDERVKEFKQSLIKYMETQRSYTALAEANCLKGALIKTQLCVLFCIQ
LFLRLIILWLCILHSMCNLFCCLLFSMCNLFCSLLFIIPKKLMIFLRTVIRLERKTPRL

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FIGURE 1848A

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CCCAATGTTTTCACTTAATAACTATGACAACCTTAAAGAATGTCACTTAAGTTAGAAAATAAGCAGGCTAAGAAG
TGATTCTAATTAGGACCCCCACTCAGTTTGCTAGTCATGCCTGCCTGACAGAACATAAGCTTTTGTAAAGTATTT
AGACTGATAACACATGCAGTATGAAAACATTATAGACTGCAGTTAGAAGACTAATTTTTTAAAAGCACTCAAAAC
ATAGAACTAAGATTTAGAATATATGTCCATTTATAATGAAATAATTTATGTTCATAATGTGAACATGTAAGATAA
GTAAATAAAGCATTACTTGTTTTATAATATCAGGAAGAGAGAAGGAAACATTAGTTTATAACAATGTGCTATTTA
ATATCTGTATTTTGAACATTTAAAATACTCTGATGGTAAGGTTGCCAAAGTAATTTTGAATTCATAAAAATTGTT
TATACCACAATAATGTGGGATATGTTTACAGGCTCTTTTATTTTGTGGTAGTTACTTTATAGTTCAGATGAATTT
GCATTTCAGTCACTTATAGTAAATAAAGTATATTAAATATTTGTTGGAATAAAAATCTCAATGTAATAGGACATA
GATAAATTATGCAACAGCCTGCTTTGATGAAAGCTGGTGCATTATGTGAGCTGCCACAGTTAATACTTTGTATTA
ACATTGCTTACTTCCCCCATTTGCTTCACCTATCTGACTACAATTGCTGGAATCATTCTTTTTGTGGTGCTTCCT
CCAAGTGAAATAACTATGTTATTAAAACCTACTGGATTAATTTTATCAAATATCAGACTTACTGATCTCTTGGCA
GAGATTTATTGGTGTCTCAGTGTGATCACAATACAAGTTGTAGCAACCATTTTATAAAACTCTTAGAGAATTATG
TAGATAAAATGGAAATTACATAATCCTAAAACATTTTTGAGGGCTAATTGATAATAATTTCAGCAATTTTATTAA
GAACCCAGTAAATTAATCCCTAATTTGTACGTTTTTTGTTCAACTTACCGTGTCTGCAACCATTATATAGACTTC
ATTGATACTCAGCAATTACTACAGTGTGTCTTACAATGTTATAAAAAACAAACAGCAATCTCTGTTTCTGCCAGA
AGTTAGATATTTTTTTATAGTCCTGATGAATTTGTTGTGAGTAGACACCACATAGTTATTTCTGTTTGCATATAA
ATTTGCTGCTATTTATTTGTATGTTTTTCTACTGTAGTATGCTATTGATTCTGAAGTTATAATCATAATTTTTA
TTTTAGTAATCCAAGCTAAATGGGCAACCAGAAGTAATATCTGCTAGGGTGCAATCCATCAGCATTGGTTCAGTG
CATATACATAAGTAAACCAGTTTAAAAAAAATTTTACTAAGCAAAAGGTAGTAGCAATATTGCTAGTTAAAGATTA
CCATTTTAGGGGAAAGTTCAAAGGTTTAACTTCCTGAAACCTTTTAAACTTTTCAGTGCAAGAATGAAAATGTTT
GAAAGCCTTGTTAAGCTCATAAAAGTTTCATTTAAACACTGTAGAGTTTCCTACCTTTGTTGTGTAAAGGATATA
GAAAATATTTTTCTATGGACAGAAGGTTGAAACTGTTAACTTCTTTAATTTCATTGTTTAAAGGAGATAAAAATGT
TATTTGTGTGTCTTTCATGCTGTAAAGAAAATGAATGTATCTTTCAAATGTCATTAGAATTATGGCTTGATTCTA
AGGATACTCTATTTGTTTTAAAGTCTACACGGGATTGAAAAGAAAGGGAAGAGTATTACACTTCATTGTACAAAA
TGTAATTTTAGAAGAAAAACTAATTTTCATTATAAACAAGAGCAATCATTGAAGCATTTTCAGATATAATGTACA
TTCTTTTTCATTTTGCTTTGCCTCTAGAATAGAAACTTTTCAGAAAATTTGCACATACTGTTTGTAAGTATAAAA
TAATTGAATTCTAGACTTTTGGAGTGTGGAAGGGTGTTTGTGTGTGAAGGTAATAAATGTGTTGCTGCATGTGTT
TACCATAGAGAACGTTGCCAGGCTTTGTCAAATGAGGACATTGTTGTGAGGGTGTGACTTTTGTGAAGCCAGAAA
ACTGTGCCTAAGATTCATTACAGTGAGTATGTGCAGAGGCCCCTGACCCAGTAAATGCTTTTTGCCTTTTTATTC
CCAATGTCTTGGACAGTTGAGACAACTTGGCCCAACTCTGAATTGTAGCAGTGATGTCTTATATGCTTACGAGTT
TATATTAATTCAGCTGAACAAGAACTACATCTTAAACCACCTTTGTAGGTATGATTAATACGTGCAACAGCTGCT
TTAAAAGGTGGTATTTATTATTCATCACTCATGAAACTTGACTCAGTGAGGACTTCATTATTTTTATTTCTCTTT
CCACGTCTCCAACTTTTTAAAAATCACTAATTTAACTCTTTGTTAAGTACTCAAGTACAAAGTGATCTCTTCTTT
CATGAACTTTGCTATAACTGTTGAAAGGATTGGTGTCAGGCTCTCTCAACCCTGGGAGTTTCCAAAATTTAGCAA
ATATTACTTGTGATAAGCTTAAATGCCACATCGCTAAGTACAATTATTACCAGGAATCCGTCAAGGGGGAGATAG
CCCCGCTCACACCCTTAGACCCAAACAGGTGCTGGTTCATGCTTTCTCCACAAATTGGCAGTTGGGTACTTCCCC
ACTGTCATCACAGTTGAGCTCATTTTAACATATATTCAAAGAAGCTTTTTAGTTTCTACTCCTGAATTGTAGTGT
TCAAGTTATTTGCCTTCCTGGGTAAGAAAATTTTAACCCAAGTCTGGGATTCTCTGGCACCTGTCTTTTCCCATC
TTTCAATGAGTTGGCAAGATTAGGTCAAATTTCAATGCTAAATTTGATTTTTGAATTTTAAATAGTTGCACTTT
ATTTCATGCTGACCACCAACTTAATTTATACATTTTAAAATAAAATTATCCTAGAAGTGTTGTAAACGTGGGAAA
ATTTTAATTAGTGTTGGAGGTCATTAGATTGGACCCAGGTTTAAATATAATGATCTCTTCACAGCTTATTTGATG
TTTAAGAGCAACTTGTGTGATCTTAGCTTTGCAGGTTTTCTGTAATTTATGTAGCACAATAAAGGATAACCAGTT
GACTGTGTTACTGGACTCTGAGTTCTCACAGCTAGTTTCATCTAAGCTTGGTTTATTATCATTTCTGCTTTGGAT
TTTTTTGTGCATCACATGAATACTTAGAAATCCATTTGTTTTCAGTGTAGTACCTAGGGTGAAGTAGATGCTGCA
CAAGTAAGTTTAAGGGAATAAAAGTCCCGACACTTTATATACATGTTGAGGGGCACGATTTAAGAGACTGAAACA
GTTTACATTAAACTGTTTTTATTTTCTGCCAGTAGACTCTATCTGCTTAAAAAAATAAAAATTGTTCAACCCAGT
GTTCTCCAGCATCAGGACATTACAGTTGTAATCTATGTTGTAATCTTTTCAAATAAGAAAAGCTACTCCTTATTC
TCTACAGTGTAGGCTTAATTTTAGAACCGATAATTTACTATATCTGCATTATTGATATTTTTAAGTAGTAGTTTT
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FIGURE 1848B

AAAAATAATTATTTCTATGTGGAGGGTGTTTTAATTTGGGATTTTTTTTTTCTTGTAACAGGTGCTATTTGTAAA
TATGAAGGGGAAAAGTCACTTAGTTAAAAGTCTAGCTTATGTCATAATTAAGATACAATTATTCATTTCATGTTT
GATTCTATTAAACTAGTGGCAAAACAGAATTGGTCCCTTAGTTTTTTAGATTACCTTTCCCCCTATATCACAAAA
ATATCTCTTTCCATATGATCTCATAATTGAGGCAAAGAAGCTAAGGGTTTATTTAAAATGTGTATAAGCTTGAAT
TTGGTCAACACTGCATAATTTGAAATCACTCTGCATTTGTCACTGCAGCTTACTGTATGCTTGAAAGGCCTTGTG
TGTTTGTCTTAATTTTAGTGAAAAAATTAGAATTTCTGCCATTCATGTACAAAAAAATTACAACTACAGCAAACA
AGATAAAAATGCTGGTTTGCATTAATACTGTTTTAGTCTTAAGAGCAATTTATATTATGTGAAATGCTGTTACAC
ATATTTTGTTGGCCATATTTCATTTTGAGAAACAGTTGTTCAGGTACAAACATGAAAAACAACTCTAGCTATGAC
TCTTA**ATG**TTCAATTGCAAAATAAAGATGTGCTTTAGTAATCT

FIGURE 1849

MFNCKIKMCFSN

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FIGURE 1850

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GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCCGGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGCAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTCGCAGGCAACCCCCAGTTCAGTGTCCAGAGGCACAGCCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTGCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCCAGCCAAGATGTTCATGTAGTATTGAAACTCTGGAAGAGTGGATTCAGCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAACTTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAAACTGGGCAGCACTGCCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTCGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCGGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACCTGCTCAATGCTGTCATCGTGCAGCGGTTAACATAACC
GCCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG
TTTGTTTTCTCCTTAGTTGCATTTCCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAAATAAAAA
CAACCAAAAAAAAAAAAAAAAAAAA
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FIGURE 1851

MAEERQDALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEEEEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFKGAKEHGAVAVERVTKSPGETSKPRPF
AGGGYRLGAAPEEESAYVAGERRRHSGQDVHVVLKLWKTGFSLDNGDLRSYQDPSNAQFLESIRRGEVPAELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLNTSSPAQQAENEAKASSSILINEAEPTTNIQI
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFVLMTTFPNKELADENQTLKEANLLNAVIVQRLT

FIGURE 1852

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GGCACGAGGGCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGAACGGCGAGCGCTGGGAGCT
GCAGCTCAAGGGCGCCGGGCCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCCTACGGTCAAGCATCCG
GGAGTTTCTATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCCGGCGCCTGCGTCACGTCCGA
GTCCACGGTGGTGCGCGACGTGTTCTATGATGGTAATCCCAAATATGAACAATGCACGGTTGTGTTGCGTGTAGC
TTCCACTTTCATAAGGTTTGGATCCTTTGAGATTTTTAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAG
CGTGGGGAGGAACGACATTCGAGTGCAGCTGCTCGACTATGTCATCAGCTCCTTTTACCCCGAGATCCAGGCTGC
TCATGCCAGCGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGCGGCGCACGGCGCGGATGGTGGC
CGAGTGGCAGTGTGTGGGCTTCTGCCACGGCGTGCTCAACACCGACAACATGAGCATCCTGGGGCTCACCATCGA
CTACGGGCCCTTTGGCTTCCTGGACAGGTACGACCCCGACCACGTGTGCAATGCCTCCGACAACACCGGCCGCTA
CGCGTACAGCAAGCAGCCCGAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAACTGCC
CCTGGAGCTGGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCCGAGTTCCAAAGGCACTACCTGCAGAAGATGCG
CAGGAAGCTGGGCCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCA
TCTGACCGGTGCCGACTTCACAAACACCTTCTACTTGCTGAGCTCCTTCCCAGTGGAGCTAGAGTCGCCAGGCCT
GGCGGAATTCCTGGCCAGGCTGATGGAGCAGTGTGCCTCCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGAT
GGATCCCCGGCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGCAGCTGTTCGCGCTTATGGGCACCCG
GGCAGGCATCGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCA
GAGCAGGAACCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGC
TGGGGACGCTGCCGCCTGGCAGGCTGAGCACGTGCGCGTGATGCACGCCAACAACCCGAAGTACGTGCTGAGGAA
CTACATCGCGCAGAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGCTGAAACTACT
GGAGACCCCTTACCACTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAG
GCAGCGCTCCTACAGCAGTAAGCCCCCGCTCTGGGCAGCAGAACTGTGCGTGACATGATCTTCGTAACGGCCTCG
GCACGCTCCACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCT
ATACACTGGGGGATTCTGCCCTGGCCCATGCACACCCGTCTTTCCATGATGGCAGAGACATCCAGTCAGGACCTG
ACCCGTCTCTGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACC
AGCAACTCCCTCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1853A

TCGTGTTTCGGTGAGTGTGGCGGAG**ATG**GAGAGCCGGGATCCCGCCCAGCCGATGTCGCCTGGAGAAGCGACGCA
GAGTGGCGCCCGGCCTGCCGACCGCTATGGCCTATTGAAGCACAGTCGCGAGTTCTTGGACTTCTTCTGGGACAT
TGCGAAGCCTGAGCAGGAGACGCGACTTGCGGCCACGGAGAAGCTGCTGGAGTATCTGCGTGGCAGGCCGAAGGG
GTCCGAGATGAAATATGCCCTGAAGCGTCTAATCACGGGACTCGGGGTCGGGCGAGAAACAGCCCGGCCCTGCTA
CAGTTTGGCCCTGGCACAGCTGTTACAGTCTTTTGAAGACCTCCCCTTGTGCAGCATCCTGCAGCAGATACAAGA
AAAATATGACCTGCATCAGGTGAAGAAGGCAATGCTGAGACCTGCTCTCTTTGCAAACCTGTTTGGAGTGCTCGC
CCTCTTTCAGTCAGGTCGGCTGGTGAAGGACCAGGAGGCACTGATGAAGTCGGTGAAGCTGCTGCAGGCCCTGGC
CCAGTACCAAAACCACTTGCAGGAGCAGCCCCGGAAGGCCCTGGTGGACATCCTCTCCGAGGTCTCGAAGGCCAC
ATTGCAGGAGATCCTGCCGGAGGTCCTCAAAGCCGACTTGAATATAATACTCAGCTCCCCTGAACAGCTAGAGCT
CTTCCTCCTGGCCCAGCAGAAGGTGCCCTCCAAGCTCAAGAAGCTGGTGGGATCCGTGAACCTATTCTCAGATGA
GAATGTCCCCAGGCTGGTGAATGTGCTGAAGATGGCCGCCTCCTCTGTGAAGAAGGACCGCAAGCTGCCCGCCAT
TGCTCTGGACCTGCTCCGCCTGGCGCTCAAGGAAGACAAGTTCCCACGGTTCTGGAAGGAGGTGGTGGAACAAGG
GCTGCTGAAGATGCAGTTCTGGCCAGCCAGCTACCTGTGTTTCCACCTGCTGGGCGCGGCCCTGCCCCTGCTGAC
CAAGGAGCAGCTGCACCTGGTGATGCAGGGAGACGTGATCCGCCATTACGGGGAGCACGTGTGCACTGCTAAGCT
CCCAAAGCAGTTCAAGTTTGCCCCAGAGATGGACGATTACGTGGGCACCTTCCTAGAGGGGTGCCAGGATGACCC
TGAGCGGCAGCTGGCCGTGCTAGTGGCCTTCTCATCTGTCACCAACCAAGGCCTCCCTGTCACGCCTACTTTCTG
GCGGGTCGTGCGGTTCCTGAGCCCTCCGGCCCTGCAGGGCTATGTGGCCTGGCTGCGGGCCATGTTTCTCCAGCC
AGACCTGGACTCCTTGGTTGACTTCAGCACCAACAACCAGAAGAAAGCCCAGGATTCATCGCTCCACATGCCTGA
GCGAGCTGTGTTCCGGCTGAGGAAATGGATCATCTTTCGATTGGTGAGCATTGTGGACAGCCTGCACCTGGAGAT
GGAGGAGGCCTTGACTGAGCAGGTGGCCAGGTTTTGTTTGTTCCACTCGTTCTTTGTCACAAAGAAGCCCACATC
CCAGATCCCTGAGACAAAGCACCCGTTCTCCTTCCCTTTGGAAAACCAGGCCCGAGAGGCTGTCAGCAGTGCCTT
CTTCAGTCTGTTGCAGACCCTCAGCACGCAGTTCAAGCAGGCACCGGGCCAGACCCAGGGTGGGCAGCCCTGGAC
CTACCACCTGGTGCAATTCGCAGACCTCCTGTTGAATCACAGCCACAACGTGACCACCGTGACACCCTTCACTGC
GCAGCAGCACCAGGCCTGGGACCGGATGCTGCAGACTCTGAAGGAGCTGGAGGCCCACTCCGCAGAGGCCAGGGC
TGCTGCCTTCCAGCACCTTCTGCTCTTCGTGGGCATCCACCTCCTCAAGTCCCCTGCAGAGAGCTGTGACCTGCT
GGGTGACATCCAGACCTGCATCAGGAAAAGTCTGGGAGAGAAGCCCCGCCGGAGCCGCACCAAGACCATCGACCC
CCAGGAACCCCGTGGGTAGAGGTGCTGGTGGAGATCTTGCTGGCCCTGTTGGCCCAGCCCAGCCACCTCATGCG
CCAGGTGGCCCGGAGCGTGTTTGGCCACATCTGCTCCCACCTGACCCCGCGTGCCCTGCAGCTAATTCTGGATGT
GCTGAACCCCGAGACCAGTGAGGATGAGAATGACCGTGTGGTGGTGACGGACGATTCTGATGAGCGGCGGCTGAA
GGGTGCAGAGGACAAGAGCGAGGAAGGTGAGGACAACAGAAGCTCAGAGAGTGAAGAGGAGAGCGAGGGGGAGGA
GAGCGAGGAGGAGGAGCGCGACGGGACGTGGATCAGGGCTTCCGGGAACAGCTGATGACCGTGCTGCAGGCTGG
GAAGGCGCTGGGTGGAGAGGACAGTGAGAACGAGGAGGAGCTGGGGGATGAGGCCATGATGGCCCTGGACCAGAG
CCTCGCCAGCCTCTTTGCCGAGCAGAAGCTGCGTATCCAGGCCCGGCGAGACGAGAAGAACAAGCTGCAGAAGGA
GAAGGCTCTGCGGCGCGACTTCCAGATCCGGGTGCTGGACCTGGTGGAGGTGCTAGTGACCAAGCAGCCCGAGAA
TGCCCTGGTCCTGGAGCTGCTGGAGCCGCTGCTGAGCATCATCCGGCGCAGCCTGCGCAGCAGCAGCTCCAAACA
GGAGCAGGACCTTCTGCACAAGACGGCGCGCATCTTCACGCATCACCTGTGCCGTGCCCGGCGCTACTGCCACGA
CTTGGGTGAGCGCGCAGGGGCCCTGCACGCCCAGGTGGAGCGGTTGGTGCAGCAGGCTGGCCGCCAGCCCGACTC
CCCCACCGCCCTCTACCACTTCAACGCCTCTCTCTACCTGCTCCGGGTCTTGAAGGGCAACACTGCTGAGGGCTG
CGTGCATGAGACACAGGAGAAGCAGAAAGCTGGCACTGACCCCAGCCACATGCCCACGGGCCCGCAGGCTGCCAG
CTGCTTGGACTTGAACCTGGTGACCCGGGTGTACTCGACAGCACTGAGCTCCTTCCTGACCAAGCGCAACAGCCC
CCTCACAGTTCCCATGTTCCTCAGCCTCTTCTCCCGGCACCCGGTGCTCTGTCAGAGCCTGCTCCCCATCCTGGT
CCAGCATATCACGGGCCCGGTGCGGCCCCGTCATCAGGCCTGCCTGCTGCTCCAGAAGACCCTGTCCATGCGGGA
GGTGAGGTCGTGCTTTGAGGACCCCGAGTGGAAGCAGCTGATGGGCCAGGTCCTAGCAAAGGTCACCGAGAACTT
GCGCGTGCTGGGGGAGGCGCAGACCAAGGCGCAGCATCAGCAGGCACTGTCCTCCCTGGAGCTGCTCAACGTTCT
CTTCAGGACCTGCAAACATGAGAAGCTGACCTTGGACCTGACGGTGCTCCTGGGTGTGCTGCAGGGGCAACAGCA
GAGCCTACAGCAGGGGGCACACTCCACCGGCTCCAGCCGCCTGCACGACCTCTACTGGCAGGCCATGAAAACCCT
GGGAGTCCAGCGCCCCAAGTTGGAGAAGAAGGATGCCAAGGAGATCCCCAGTGCCACCCAGAGCCCCATCAGTAA
GAAGCGGAAGAAAAAGGGATTCTTGCCAGAGACGAAGAAGCGCAAGAAACGCAAGTCAGAGGATGGCACGCCAGC

FIGURE 1853B

GGAGGATGGCACACCTGCAGCCACCGGCGGGAGCCAGCCCCCCAGCATGGGCAGGAAGAAGAGGAACAGGACAAA
GGCTAAGGTCCCAGCCCAGGCAAACGGGACGCCAACCACCAAGAGTCCAGCCCCTGGCGCCCCCACCCGGAGCCC
CAGCACCCCTGCCAAATCCCCAAAACTGCAGAAGAAAAACCAGAAGCCGTCCCAGGTGAATGGAGCTCCCGGGTC
CCCCACGGAACCTGCAGGCCAAAAGCAGCATCAGAAGGCTCTTCCCAAAAAGGGGGTCTTGGGCAAATCACCACT
GTCCGCGCTGGCACGGAAAAAGGCAAGGCTGTCTTTGGTCATCAGGAGTCCCAGCCTGCTTCAGAGTGGGGCCAA
GAAGAAAGCACAGGTGAGGAAGGCAGGGAAGCCC**TGA**GCACAGGTACGGGCCCCCCTCAGCCCCTGCCTCCATCT
GCCTGAGACGCCTATTTTTTTTTTTTTTAAAACCATGATTTTAATACGCAAGCTGTTTCTAAGGCGCTGCCACTGG
GGAGGGTGGCTGTTGCCGCCTGCCCGGGCATCCTGCTCTGGCAAGCACAGCCTGAGCCATTCCTGCGGGGGTCCC
AGGGTGCAGAGACCTCCCCACCCCCAGTTCTGGGCTGGGATCCTGGCTCCAGGGCCATGTCCAGGGCTCTGGTGT
TTGCCTGGGTTGGTGCATGTTGATGTGCTGGCTGCAGGCAGGTGTGACCATCTCTCGTGCCTGCCACCTCTTTGC
CCCCAGGCTTTTTTGCTGTGAGGGAGCCACCAGGGGGTGATTTAAATAGGTTTATTTCTTCATTTACAAGAGGAA
TATATTTGGCTTCTCTCTTAAGACTCTGAGATTCACAATCAGCAGCTCTAAAAAATAAAGGAGCAGTTTGGCTTC
CGGAAGGAAGAGGAGGCTAAAAAAAAAAAAAAAAAAAAA

FIGURE 1854

MESRDPAQPMSPGEATQSGARPADRYGLLKHSREFLDFFWDIAKPEQETRLAATEKLLEYLRGRPKGSEMKYALK
RLITGLGVGRETARPCYSLALAQLLQSFEDLPLCSILQQIQEKYDLHQVKKAMLRPALFANLFGVLALFQSGRLV
KDQEALMKSVKLLQALAQYQNHLQEQPRKALVDILSEVSKATLQEILPEVLKADLNIILSSPEQLELFLLAQQKV
PSKLKKLVGSVNLFSDENVPRLVNVLKMAASSVKKDRKLPAIALDLLRLALKEDKFPRFWKEVVEQGLLKMQFWP
ASYLCFHLLGAALPLLTKEQLHLVMQGDVIRHYGEHVCTAKLPKQFKFAPEMDDYVGTFLEGCQDDPERQLAVLV
AFSSVTNQGLPVTPTFWRVVRFLSPPALQGYVAWLRAMFLQPDLDSLVDFSTNNQKKAQDSSLHMPERAVFRLRK
WIIFRLVSIVDSLHLEMEEALTEQVARFCLFHSFFVTKKPTSQIPETKHPFSFPLENQAREAVSSAFFSLLQTLS
TQFKQAPGQTQGGQPWTYHLVQFADLLLNHSHNVTTVTPFTAQQHQAWDRMLQTLKELEAHSAEARAAAFQHLLL
FVGIHLLKSPAESCDLLGDIQTCIRKSLGEKPRRSRTKTIDPQEPPWVEVLVEILLALLAQPSHLMRQVARSVFG
HICSHLTPRALQLILDVLNPETSEDENDRVVVTDDSDERRLKGAEDKSEEGEDNRSSESEEESEGEESEEEERDG
DVDQGFREQLMTVLQAGKALGGEDSENEEELGDEAMMALDQSLASLFAEQKLRIQARRDEKNKLQKEKALRRDFQ
IRVLDLVEVLVTKQPENALVLELLEPLLSIIRRSLRSSSSKQEQDLLHKTARIFTHHLCRARRYCHDLGERAGAL
HAQVERLVQQAGRQPDSPTALYHFNASLYLLRVLKGNTAEGCVHETQEKQKAGTDPSHMPTGPQAASCLDLNLVT
RVYSTALSSFLTKRNSPLTVPMFLSLFSRHPVLCQSLLPILVQHITGPVRPRHQACLLLQKTLSMREVRSCFEDP
EWKQLMGQVLAKVTENLRVLGEAQTKAQHQQALSSLELLNVLFRTCKHEKLTLDLTVLLGVLQGQQQSLQQGAHS
TGSSRLHDLYWQAMKTLGVQRPKLEKKDAKEIPSATQSPISKKRKKKGFLPETKKRKKRKSEDGTPAEDGTPAAT
GGSQPPSMGRKKRNRTKAKVPAQANGTPTTKSPAPGAPTRSPSTPAKSPKLQKKNQKPSQVNGAPGSPTEPAGQK
QHQKALPKKGVLGKSPLSALARKKARLSLVIRSPSLLQSGAKKKAQVRKAGKP

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FIGURE 1855

AGGTTACTATAGTGTCTGCTCCTACCCCTGGGACAAGATCCCCTAATGAGCTGGCAGGTGGGCGTGGGGGGCACA
GGTACAGCTTGGCTTCTCAGCTTTGCTCCCCTATCCTCTGCTTTGCCATGAATCTCTCATCCAGCCCCGCAGGGA
TCTGCCTGGCCAGCAGTGAGCCTGAGCCCCTTTCATCCTGGGACCTGCCGACCACGGCTCACATCCTCCTGGGTG
AAGAATGTCACCTTGCTTCCTATCTGCCTCTTTCGTGGTTGGCTGGGGAGGGGGACCGGGGGGGTGGGGTGAGGTT
AACCTCATTGTTGTCTTATATGGTCATTTAAATCTCCCAGGGCTTCCTCCAAGGGCCAAAAATAATCCGGAGACA
CAGCAGCTGTGTCCAGCACACAGAGGACCCGGCCATCTGCTTTGGTTCAGAGCCCTGTGTCTGTCAGTCAGTCTC
TCCCTGGCTCTCCCTCCATCCTCATTCCTGCCTGAAGCC**ATG**ACCCGCTTCTCCTATGCAGAGTACTTTTCCCTC
TTTCACTCCTGCTCTGCACCCTCCAGGTCCACTGCACCTCCTGAGAGTTCGCCGGCCCGGGCCCCAATGGGCTTG
TTCCAAGGGGTCATGCAGAAATACAGCAGCAGCTTGTTCAAGACCTCCCAGCTGGCGCCTGCGGACCCCTTGATA
AAGGCCATCAAGGATGGCGATGAAGAGGCCTTGAAGACCATGATCAAGGAAGGGAAGAATCTCGCAGAGCCCAAC
AAGGAGGGCTGGCTGCCGCTGCACGAGGCCGCATACTATGGCCAGGTGGGCTGCCTGAAAGTCCTGCAGCGAGCG
TACCCAGGGACCATCGACCAGCGCACCCTGCAGGAGGAAACAGCCGTTTACTTGGCAACGTGCAGGGGCCACCTG
GACTGTCTCCTGTCACTGCTCCAAGCAGGGGCAGAGCCGGACATCTCCAACAAATCCCGAGAGACACCGCTCTAC
AAAGCCTGCGAGCGCAAGAACGCGGAGGCCGTGAAGATTCTGGTGCAGCACAACGCAGACACCAACCACCGCTGC
AACCGCGGCTGGACCGCTCTGCACGAGTCTGTGTCTCGCAATGACCTGGAGGTCATGCAGATCCTGGTGAGCGGA
GGAGCCAAGGTGGAATCCAAGAACGCCTACGGCATCACCCCCTTGTTCGTGGCCGCCCAGAGTGGACAGTTGGAG
GCCTTGAGGTTCTTAGCCAAGTACGGTGCTGACATCAACACGCAGGCCAGCGACAACGCGTCTGCCCTCTACGAG
GCCTGCAAGAATGAGCATGAGGAGGTGGTGGAGTTTCTGCTGTCACAGGGTGCCGACGCCAACAAGACCAACAAG
GACGGCTTGCTCCCGCTGCACATCGCCTCCAAGAAGGGCAACTACAGGATCGTGCAGATGCTGCTGCCGGTGACC
AGCCGCACGCGCATACGCCGTAGCGGCGTCAGTCCGCTGCACCTGGCGGCCGAGCGCAACCACGACGAGGTGCTG
GAGGCGCTGCTGAGCGCGCGCTTCGACGTGAACACGCCGCTGGCGCCCGAGCGCGCGCGCCTCTACGAAGACCGG
CGCAGCTCCGCGCTGTACTTCGCGGTGGTCAACAACAACGTGTACGCCACCGAGCTGCTGCTGCAACACGGCGCC
GACCCCAACCGCGACGTCATCAGCCCCTTGCTCGTGGCCATCCGCCACGGCTGCCTGCGCACAATGCAGCTGCTG
CTGGACCACGGCGCGAACATCGACGCCTATATCGCCACGCACCCCACCGCCTTCCCCGCCACCATCATGTTCGCC
ATGAAGTGCCTGTCGCTGCTCAAGTTCCTCATGGACCTGGGCTGCGACGGCGAGCCCTGCTTCTCATGCCTCTAC
GGCAACGGCCCGCACCCGCCGGCCCCGCAGCCCTCCAGCAGGTTCAACGACGCGCCCGCGGCCGACAAGGAGCCC
AGCGTGGTGCAGTTCTGTGAGTTCGTATCTGCCCCAGAGGTGAGCCGCTGGGCGGGGCCCATCATCGATGTCCTC
CTGGACTACGTGGGCAACGTGCAGCTCTGCTCGCGGCTGAAGGAACACATCGACAGCTTTGAGGACTGGGCCGTC
ATCAAGGAGAAGGCAGAACCTCCAAGACCTCTGGCTCACCTTTGCCGACTGCGGGTTCGAAAGGCCATTGGGAAA
TACCGTATAAAACTCCTAGACACCTTGCCGCTCCCAGGCAGGCTGATTAGATACCTGAAATACGAGAACACCCAG
TAACTGGGGCCACGGGGAGAGAGGAGTAGCCCCTCAGACTCTTCTTACTAAGTCTCAGGACGTCGGTGTTCCCAA
CTCCAAGGGGACCTGGTGACAGACGAGGCTGCAGGCTGCCTCCCTCTCAGCCTGGACAGCTACCAGGATCTCACT
GGGTCTCAGGGCCCAGAGCTTTGGCCAGAGCAGAGAACAGAATGTGTCAAGGAGAAGAATCATTTGTTTACAAAC
TGATGAGCAGATCCCAGACCTTCTCTACCTTCAGGAATGGCAGAAACCTCTATTCCTGGGGCCAGGGCAGAGCTT
GAGGTGTTCTGGGGAAGGTGGTGCTCAGAGCCTTCCCTGTGCCCCTCCACTTGTTCTGGAAAACTCACCACTTGA
CTTCAGAGCTTTCTCTCCAAAGACTAAGATGAAGACGTGGCCCAAGGTAGGGGGTAGGGGGAGCCTGGGTCTTGG
AGGGCTTTGTTAAGTATTAATATAATAAATGTTACACATGTG

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FIGURE 1856

MTRFSYAEYFSLFHSCSAPSRSTAPPESSPARAPMGLFQGVMQKYSSSLFKTSQLAPADPLIKAIKDGDEEALKT
MIKEGKNLAEPNKEGWLPLHEAAYYGQVGCLKVLQRAYPGTIDQRTLQEETAVYLATCRGHLDCLLSLLQAGAEP
DISNKSRETPLYKACERKNAEAVKILVQHNADTNHRCNRGWTALHESVSRNDLEVMQILVSGGAKVESKNAYGIT
PLFVAAQSGQLEALRFLAKYGADINTQASDNASALYEACKNEHEEVVEFLLSQGADANKTNKDGLLPLHIASKKG
NYRIVQMLLPVTSRTRIRRSGVSPLHLAAERNHDEVLEALLSARFDVNTPLAPERARLYEDRRSSALYFAVVNNN
VYATELLLQHGADPNRDVISPLLVAIRHGCLRTMQLLLDHGANIDAYIATHPTAFPATIMFAMKCLSLLKFLMDL
GCDGEPCFSCLYGNGPHPPAPQPSSRFNDAPAADKEPSVVQFCEFVSAPEVSRWAGPIIDVLLDYVGNVQLCSRL
KEHIDSFEDWAVIKEKAEPPRPLAHLCRLRVRKAIGKYRIKLLDTLPLPGRLIRYLKYENTQ

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FIGURE 1857

GTGAGGCTGGCGGTGGCGACAACCGAGGAGGAGGGGCGGGACGCCGTGGAGCACGGCGACCGGCTGAGCGTC**ATG**

GAGGGCTCAGGGGAGCAGCCGGGCCCACAACCACAGCATCCCGGAGACCACCGCATCCGCGACGGCGACTTCGTG
GTGCTGAAACGTGAAGATGTGTTTAAAGCAGTACAAGTCCAGCGGAGAAAAAAAGTAACTTTCGAAAAACAGTGG
TTCTACCTGGATAACGTCATTGGCCATAGTTATGGAACTGCATTTGAAGTGACCAGTGGAGGAAGTCTACAGCCC
AAGAAGAAGAGGGAAGAGCCTACTGCAGAGACTAAAGAAGCGGGCACTGATAATCGAAATATAGTTGATGATGGG
AAATCTCAGAAACTTACTCAAGATGACATAAAAGCTTTGAAGGACAAGGGCATTAAAGGAGAGGAAATAGTTCAG
CAGTTAATTGAAAATAGTACAACATTCCGAGACAAGACAGAATTTGCCCAAGATAAATATATTAAAAAGAAGAAA
AAAAAATATGAAGCCATCATTACTGTTGTGAAGCCATCCACCCGTATTCTTTCAATTATGTATTATGCAAGAGAA
CCTGGAAAAATTAACCACATGAGATACGATACACTAGCCCAGATGTTGACGTTGGGAAATATCCGTGCTGGCAAC
AAAATGATTGTGATGGAAACGTGTGCAGGCTTGGTGCTGGGTGCAATGATGGAACGAATGGGAGGTTTTGGCTCC
ATTATTCAGCTATACCCTGGAGGAGGACCTGTTCGGGCAGCAACAGCATGTTTTGGATTTCCCAAATCTTTTCTC
AGTGGTCTTTATGAATTCCCTCTCAACAAAGTGGACAGTCTTCTACATGGAACATTTTCTGCCAAGATGTTATCT
TCAGAGCCAAAAGACAGTGCTTTGGTTGAAGAAAGTAATGGCACACTGGAGGAAAAACAGGCTTCTGAACAAGAG
AATGAAGACAGCATGGCAGAGGCCCCAGAGAGCAACCACCCAGAAGACCAGGAAACAATGGAAACAATTTCTCAA
GATCCAGAACATAAGGGGCCTAAAGAGAGAGGAAGCAAAAAAGATTATATTCAGGAAAAACAGAGGAGACAAGAA
GAGCAGAGGAAAAGACATTTAGAGGCTGCCGCTCTGCTGAGTGAAAGAAACGCAGATGGTTTAATTGTAGCTAGT
CGTTTCCACCCCACTCCCCTGCTGCTGTCTTTGCTGGACTTTGTGGCCCCTTCAAGGCCGTTTGTGGTCTACTGT
CAGTACAAAGAGCCTCTGTTGGAATGCTACACAAAACTGCGGGAGAGGGGAGGGGTCATCAACCTCAGGCTGTCT
GAAACCTGGCTCAGAAATTATCAGGTTTTGCCAGATCGAAGTCATCCTAAACTGCTGATGAGTGGAGGTGGGGGT
TATCTTCTCTCCGGCTTCACCGTTGCCATGGACAACCTTAAAGCAGACACCAGCCTCAAATCTAATGCAAGCACT
TTAGAATCACACGAGACTGAGGAGCCTGCAGCTAAAAAACGAAAATGCCCAGAGTCTGACTCT**TAA**CCCTTTTGA
GAATTGCTCTGAATTTTGTTCTCAGGCATTATACAGTTAGTAATTAAACTTTAAATGCCATTACTACTTGTTTTT
TCATATCCCAAGAATAAGAACATGTCTATGTACCCGTTTCTAGGAAGGAGGAGTATATGCCTTTTGTCTATTTCT
GACACAGATGCATTTGGTCTGTCAAAACTGCAACCATGGGGTATGTAGTATGACCAACTGCATTAACAAAACTC
CTCTAAGTACTTCTAAATATTCTGTGCAAATATCTTGAGAACTTCAACATCCTAAAAATGTGTTTCTACAAGACT
TTATATTTTAAGCTAAGTGGAATAATACAACGTAACTAAAACATGGCGGGTACCGAAAGGAGGGCAATTCATGGA
AGAAATTTCCTCTGTTCATTCCGTTCTCTTCAACCTAAGCAATATGGATGTGTGAGTGTGTGATTTATTATGGTA
CCAAAAATGTCCACCTTCTTTCCTGCAGCGGAATAAGCTTTTTTGAAATGCTGAGGTTTTATTTTAATAGTTGAC
AACCTGGGAAAGTTCTGAGTATTTATTTTACTGCTCTTTTTTGTGCATAGAAAGGTTTAGTAGGGTACTTTTTTG
CATTAATTTGCCAATACTCTTATTCTTTGTTCTAAATAAAGTGACTAGAATTTTTGTGTACTATTCAATTAAAGG
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1858

MEGSGEQPGPQPQHPGDHRIRDGDFVVLKREDVFKAVQVQRRKKVTFEKQWFYLDNVIGHSYGTAFEVTSGGSLQ
PKKKREEPTAETKEAGTDNRNIVDDGKSQKLTQDDIKALKDKGIKGEEIVQQLIENSTTFRDKTEFAQDKYIKKK
KKKYEAIITVVKPSTRILSIMYYAREPGKINHMRYDTLAQMLTLGNIRAGNKMIVMETCAGLVLGAMMERMGGFG
SIIQLYPGGGPVRAATACFGFPKSFLSGLYEFPLNKVDSLLHGTFSAKMLSSEPKDSALVEESNGTLEEKQASEQ
ENEDSMAEAPESNHPEDQETMETISQDPEHKGPKERGSKKDYIQEKQRRQEEQRKRHLEAAALLSERNADGLIVA
SRFHPTPLLLSLLDFVAPSRPFVVYCQYKEPLLECYTKLRERGGVINLRLSETWLRNYQVLPDRSHPKLLMSGGG
GYLLSGFTVAMDNLKADTSLKSNASTLESHETEEPAAKKRKCPESDS

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FIGURE 1859

ATGACAGTGAAGACCCTGCATGGCCCAGCCATGGTCAAGTACTTGCTGCTGTCGATATTGGGGCTTGCCTTTCTG
AGTGAGGCGGCAGCTCGGAAAATCCCCAAAGTAGGACATACTTTTTTCCAAAAGCCTGAGAGTTGCCCGCCTGTG
CCAGGAGGTAGTATGAAGCTTGACATTGGCATCATCAATGAAAACCAGCGCGTTTCCATGTCACGTAACATCGAG
AGCCGCTCCACCTCCCCCTGGAATTACACTGTCACTTGGGACCCCAACCGGTACCCCTCGGAAGTTGTACAGGCC
CAGTGTAGGAACTTGGGCTGCATCAATGCTCAAGGAAAGGAAGACATCTCCATGAATTCCGTTCCCATCCAGCAA
GAGACCCTGGTCGTCCGGAGGAAGCACCAAGGCTGCTCTGTTTCTTTCCAGTTGGAGAAGGTGCTGGTGACTGTT
GGCTGCACCTGCGTCACCCCTGTCATCCACCATGTGCAGTAA

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FIGURE 1860

MTVKTLHGPAMVKYLLLSILGLAFLSEAAARKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMSRNIE
SRSTSPWNYTVTWDPNRYPSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGCSVSFQLEKVLVTV
GCTCVTPVIHHVQ

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FIGURE 1861

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ACCTGCTGCCGCCCCAGCTGCTGCATTTCTAGTTGCTGCAGGCCTTCCTGCTGTATCTCTAGCTGTTGCAAACCC
AGCTGCTGCCAGACCACCTGCTGCCGCCCCAGCTGCTGTATCTCCAGCTGCTACAGGCCCCAGTGCTGCCAGCCC
TCCTGCTGCCGCCCGGCTTGCTGCATTTCTAGTTGCTGTCATCCCAGCTGCTGTGTGTCCAGCTGCCGCTGCCCT
TTCAGCTGCCCGACCACCTGCTGTAGAACAACCTGCTTCCACCCCATCTGCTGCGGCAGTTCTTGCTGCTGAGTG
AAGCTGCTCTGGATTTGTGCACCTTCTTGCTCTCAACCTTCAGTTCAGGCACAGAGTATCTATTCAGAGAACATG
TGGACTTCCTGATGTCGTGAAAACAGAGGCATGGACTGATTTGGAAAATATTTTATTAGTATGTATTCTCTTTTA
TAGAAGTTTTTATTCCTATTGAATCTGAATTTACAGTCAAATTCCACATCACATGTTTTAGAATTCTTTATTCTA
ATTCAATATACATAAATCTTCAAATGGTATCCTTCTAGATGTTTCTTCCTAATGTTTTCTGTGGTATCAATTTTC
ATGTGGAATTGTTTGATGTTCCTCAATAAAACTTCATAGTGTTCAAAAGCAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 1862A

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GCGGCCGCGCGGGCGGCCAGCGGGCGTTGGGACGTGGAGACCCGGAGAGGGCGGCGGGACCCGGGCGGGGAAAGG
CGCGGCGTGGCTTGGCTCAGGTGCGCTTCTCCCACCTGGCAGCTCGCTCAGGGCTGTGGGGGGCGCCTGTGAGGG
CGCCCGCCGTTGCGGCGTGGGAGATTAATATTAAGATTGGAAGTTTGTGTCTTTTGCTGGATATTGGAAATTGAA
TGTAATGGCAACAGAATTTATAAAGAGTTGCTGTGGAGGATGTTTCTATGGTGAAACAGAAAAACACAACTTTTC
TGTGGAAAGAGATTTTAAAGCAGCAGTCCCAAATAGTCAAAATGCTACTATCTCTGTACCTCCATTGACTTCTGT
TTCTGTAAAGCCTCAGCTTGGCTGTACTGAGGATTATTTGCTTTCCAAATTACCATCTGATGGCAAAGAAGTACC
ATTTGTGGTGCCCAAGTTTAAGTTATCTTACATTCAACCCAGGACACAAGAAACTCCTTCACATCTGGAAGAACT
TGAAGGATCTGCCAGAGCATCTTTTGGAGATCGAAAGGTAGAACTTTCCAGTTCATCCCAGCACGGACCTAGCTA
TGATGTGTATAACCCATTCTATATGTATCAGCACATTTCACCTGATTTGAGTCGACGCTTTCCTCCCCGTTCAGA
AGTGACGAGACTGTATGGATCGGTTTGTGATTAAGGACGAACAAACTTCCCGGTTCCCCTGGGCTAAGCAAATC
TATGTTTGATCTTACAAACTCATCTCAGCGATTCATCCAGAGACATGATTCATTGTCCAGTGTACCCAGTAGTTC
TTCTTCAAGGAAAAATTCTCAGGGGAGTAACAGAAGCCTGGATACAATTACTCTATCAGGAGATGAAAGGGACTT
TGGGAGACTGAATGTGAAATTGTTTTATAATTCTTCAGTAGAACAGATCTGGATCACAGTTTTACAGTGCAGAGA
TTTAAGTTGGCCCTCTAGTTATGGAGACACTCCTACTGTTTCTATAAAAGGAATACTTACATTGCCCAAACCAGT
GCATTTCAAATCTTCAGCCAAGGAAGGTTCCAACGCTATTGAATTTATGGAAACGTTTGTATTTGCTATTAAACT
TCAAAATCTACAAACTGTAAGACTTGTATTTAAGATTCAAACCCAGACTCCCAGGAAGAAAACCATTGGAGAATG
CTCAATGTCACTCAGAACCCTTAGCACACAGGAAATGGATTACTCTTTGGATATAACACCACCTTCAAAAATTTC
TGTTTGCCATGCAGAACTTGAATTGGGGACTTGTTTTCAAGCAGTAAATAGCAGAATTCAGTTACAAATTCTTGA
GGCACGGTACCTTCCAAGCTCATCAACACCTCTGACTTTGAGTTTTTTCGTGAAGGTGGGAATGTTTAGCTCGGG
AGAGTTGATTTATAAGAAAAAGACACGCTTACTGAAGGCCTCCAATGGAAGAGTCAAGTGGGGAGAGACTATGAT
TTTTCCACTTATACAGAGTGAAAAAGAAATTGTTTTTCTCATTAAGCTTTACAGTCGAAGCTCTGTAAGAAGAAA
ACACTTTGTGGGCCAGATTTGGATAAGTGAAGACAGTAATAACATTGAAGCAGTGAACCAGTGGAAAGAGACAGT
AATAAATCCAGAAAAGGTTGTTATCAGGTGGCACAAATTAAATCCATCT**TGA**AGACTTCACACATTAATTTGGTG
AAGAACTTGACATTCTTTTAGAAGACTTATGATTTCAATTTGCTACCAATGAGAAGAGGCAAATCAACAAATTTG
TCAATTTATGGGGGCTATAATTATGGTATATAATGTATCTGATAGAAAATTTGATAAGAAAATGTAATGAATTTT
ATCAGATATCCAAAGTAAAGGAAATGTTTTAAAACTGCAACAAGAGACACAGACAGTAAAATCAAAGTATTATTA
GGATGACTAAATAAATTATAAAGTCTGTGAGAATATCAACCATAGATAGTTCTTTCTATATTATGTTTTTGCTTT
TGTATTTTAAGCTTTACTTAGATATTCAAAACCTGGTATATCAAGTCTCTGTTAGTACTATTGGCATTTAGAAGA
CTTTACCATTATTTCAGTGCTAGGCATTATTGATTAGGTCTTGGCTCCACTGTTTACCTCTTGCTATGTATTTTC
TCCCGGTAAAAATGAATTGAACCATTTCAACTATTTTCTATATTTGGAGAAAGTTTGTGCCCTGTGTTTTATAAT
TTTTTTACCCATAAGACATCACATTATCCCTTTGTAAGCTACTTATCTCCAAAAAACTTCAGAAATAGAAAACTA
CATTTTGGCAGGAATAATTGAAAACACCAGAAGGTTGAAGTTTAATTGGAAACCCAGAATATACATACTTTGCTG
TTTTCTTCCCTCAAATATTTTACTATTTGTTTTATTTGGAGTTAAAATAAGAGTATCATCCATATGGTCCATCCT
AATTCACAGAATTAAATGAGCTTAAATAGAAAATTCAGTATTTTATGATAATCACTTCGTTTTTAGTTTTTAAAA
TTTAGATTATTCTATAATTTACCGTGTTTGAGTATTTTCTCATTTTTTTCATAACCATACCTGATTATACTGTGT
AACAAATATTTTCTATTGCAGTTTTCTTTCCAGTACTTATTAGAACTCAGTATTTGGAAATAATTTCAGCTTAAT
TGACCATAAGAACTGTGGCCAAAAAGAACAGTTTTTTGGAGAGGCAGATGACATTATACCTGATTTTAGAAAATC
TCACTTTATTTTTGCTAATAAGTAGACTAAGTGCTCTGTGTTCTCAGTCTTCCCTTTTTTTCTGCCCCCATTCTT
ACTTTGTCCCAGGCATGCAGAGAAAGATGGTGATATTTTAGGCCAGGAGTATACCTTGCTATAACCTAAGCATGC
CTTCTTTATTCCAGCTCCTATGTTCTGTGTATATCATTAACATTTTCCCAAATAAACACTTAATTCTCTTTTCCC
TAGGTGCCATCTCCTCAAGCTACAAAATGTCCACATCTTATATCCCCTTTGCTTCTACTGCTCTGATTTTGTGGT
ACCAGTACTCTCTGCCACTGAACATTTTGAAATATTTTTGTTTTAGATTTGCAAAAAATGACATATAGGTCAGTA
CTCACATGGATTTTTAAGATAAATCACCTGTGTGATAATATTTTGAATCTGAGACGAATACAACTTTTAAAAATT
GTTTTTAAAAATAGACTTTTTTTTTAGAGCAGTTGTAGGTTAACAGAAAAATTGAGAGGAAGATAGAGATTTCC
TTTCTCCCCTGACAAAGCCCTCAACAGCCTCCCAGGCTATCAGTATCCTGCACCACAATGGTACATTTGTTACAA
TCAATGAACCTACTCTGAAACATCATTATCATCCAAAGTTCATGGTTTACATTAGAGTCCCCTCTTGGTGTTATA
CATGCTAGAGGACAAATATATGATGATATGTATGCATCATTATAATATAGTATAGTTTCGCTGCCCCTAAACATC
CTCTGCAAATGCAACTATTTTAATGGGTACCAAAGAAGTAAATGTATTTACTGGCTTTTAGATAATAAATAACGG
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FIGURE 1862B

GCTTTATTGTTTATTTTAAAAGCTACAATTTGTTTTAGCTGGTTTCTCTGTTCTATTAATGCTTTGAATTTCCAA
ATTTAATATATGTAGTCATGCATTTAACTTAATATTTAATTATTTGATTTATTTAATTTTCTATATTCTTACAAT
GTATGTATGATGTATAATTTAAGGGAAAGCTATGACTTCTCAGTTTCTTAGAATCCTAGGTAAATAAAACAATAA
AAAGAAAACCCTTACATTTAAAAGAGCTTTCAGGTACAGAAGTATTGATACAACTAAGATCCTAAATGTTTTAAT
TAGTGTTTACTTAAGCCTTTTTCAGGTGAGGAGGTACTAATGCTGGTTATTTCCTTGAAGCTTTATGTGGACCTA
TAAATAAAAATCCAATCTCCTGCTAATAGGTATGCATATTGTGAGAAAAACGTTAGGAGCTGGTAGTAAAAAATG
AGATTCTATGCCAAAATAACTTCTCTTCATATTTGCCTAGGCATTTCTTGACCTTTACCCACTTACGCAAGGAGA
AGGAAATCATAATGATGTCATGTGATCAAAGGAAACCATGGAAGGGTTCACGCTGATAGCTGATAGCTTTTACAG
TGCTCATTCCTAACAGTGGATTTACTTGTAAGCTTTCAGATCAACACAAATAGCTGCAGCCTGGGTTAAAATATA
ACATCACTATTTGGCTTTTGTTTTGCATGATTTTTAAAAGCAGTACTCCTAGGGAAATGGCCTCTGAAGTATATC
AGTTTCATCTCTTACCAAGACTGTTAAGAAGAAACTAGTGGGATTTTGAACAAGTTATATAATTGTGGTCTGAAA
AGACCCTAAACTGAAGTTCTGTTTAAATATAGTTACATGAATTTCTCTGATACTAATGTACTCAACAGCCAGGTA
TAAACTATATCTCCTAGTAACATTTTCCATTTTTGTTAATCAAATACTTGCTTATGAAGGATTTCAGAAATTTG
TAATAAATGTCAGCTTTTGATAGCATAGCAGTAATTGACATTTCAAAAATATATATTTCTTTCTGTGTTTGGTTG
GGTGTAATGAGGAAAATACCTGATAAAATGTCTGAAGACACTTTCTAATGTTATCTTGGTGCATAAGCTGTAATT
TTTATTCAAAATTAAATTTCAAATGTTTGCAGTTTTGGCTAAAACATTGAGTTGAAAGAATTATGAAAAGTGGGC
CCATATGAAGTACCATGTTCATTTTGAAATATAGATTTAAGATTTAGAAATATATTAAAAGAGTTAATGGAGCCT
CCTAAATTGGATTTTATTTTGTGGGTGAAGAATTGTAGGAAGATGAATGTGGCCTACAGTTTTAGTAATCTCCTA
GTGGAGTTTTTTTTAACTTAGTACTTTTTTATTTTTAAGTTTTTTAATCTATAAAAAATGTGATTTCTATAAACC
ATGATTACAATAAATAATTATATTAAAA

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FIGURE 1863

GRAGGQRALGRGDPERAAGPGRGKARRGLAQVRFSHLAARSGLWGAPVRAPAVAAWEINIKIGSLCLLLDIGNLN
VMATEFIKSCCGGCFYGETEKHNFSVERDFKAAVPNSQNATISVPPLTSVSVKPQLGCTEDYLLSKLPSDGKEVP
FVVPKFKLSYIQPRTQETPSHLEELEGSARASFGDRKVELSSSSQHGPSYDVYNPFYMYQHISPDLSRRFPPRSE
VTRLYGSVCDLRTNKLPGSPGLSKSMFDLTNSSQRFIQRHDSLSSVPSSSSSRKNSQGSNRSLDTITLSGDERDF
GRLNVKLFYNSSVEQIWITVLQCRDLSWPSSYGDTPTVSIKGILTLPKPVHFKSSAKEGSNAIEFMETFVFAIKL
QNLQTVRLVFKIQTQTPRKKTIGECSMSLRTLSTQEMDYSLDITPPSKISVCHAELELGTCFQAVNSRIQLQILE
ARYLPSSSTPLTLSFFVKVGMFSSGELIYKKKTRLLKASNGRVKWGETMIFPLIQSEKEIVFLIKLYSRSSVRRK
HFVGQIWISEDSNNIEAVNQWKETVINPEKVVIRWHKLNPS

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FIGURE 1864

GGGGGCGCGGCCGGTTACTCGCTTACCGGAGGCTTCAGTCCCCGGCGGCGCGGCGACAGCTAGGGTTCACGGCCA
CTGGGGCAGAGGAGCCGCGAGAAG**ATG**TGGGTTTTTGGTTACGGGTCCCTGATCTGGAAGGTGGATTTCCCCTAT
CAGGACAAGCTGGTCGGATACATCACCAACTACAGCAGGCGCTTCTGGCAGGGCAGCACGGACCACCGCGGGGTC
CCCGGCAAGCCTGGAAGAGTTGTGACTCTTGTTGAAGATCCTGCGGGATGTGTATGGGGTGTTGCTTACAGATTG
CCAGTAGGAAAGGAAGAAGAAGTAAAAGCATACCTTGACTTCAGAGAAAAAGGAGGCTACAGAACCACAACAGTC
ATTTTTTATCCAAAAGATCCCACAACAAAACCATTCAGTGTATTGCTATATATTGGAACATGTGATAATCCTGAT
TATCTTGGTCCTGCACCTCTGGAAGACATTGCTGAACAAATTTTTAATGCAGCTGGTCCAAGTGGAAGAAATACA
GAATATCTTTTTGAACTTGCAAATTCTATTAGGAACCTTGTGCCAGAAGAAGCAGATGAGCATCTTTTCGCTTTG
GAAAAATTAGTAAAGGAACGTTTAGAAGGGAAACAGAACCTCAATTGCATA**TAA**TTAGTCTTCAGAGAATTAAC
TTCAGTGCACAATGACAATATGATTTGGAAATACGTTTACTTAAAGATCTTATTTTTAATGTAGTGAGGATATTA
TTTAAACTTTTATTTTAACTGGAAATGTCCTGAAACACATATTTAAAATATTGGGATACAGTGAAAGAAAAATTC
AAATTTTAATAACATAAAGATTTCCTAACTTTATGTTATTGAACACTTACTCACTAGAAGTGAGTTCTTTAGAAA
AATACAGTGAAGGACTCAGTTCAGTCTTGTTTTTATCAGAGTGATAATCATCCTGTTTCACATCCCAATACTATT
TTGAAATTCTAAACAATTAAACCAAAATTCCAATAAATATAAGGTTATGCCTTCAATATATTCCTATACAATTCT
GTAACCATGGTTTAAAATACACAAGCTTAAAATAACATGCTTAGAAATACACAATAATATGAACAGTATTTCAGC
CTTAATTGTGAATTTCCTTGTTATTCAAGTATTAAATGAAATCTTTTGAGTTTTTAGCCAAAAATTGGCATTTTT
AAAATACGAAAATTTCCTTGGAATTATAATGTACTGTACCTCTTCTTTTTTAAATAAAGGCATTTTACTATATGG
AAAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1865

MWVFGYGSLIWKVDFPYQDKLVGYITNYSRRFWQGSTDHRGVPGKPGRVVTLVEDPAGCVWGVAYRLPVGKEEEV
KAYLDFREKGGYRTTTVİFYPKDPTTKPFSVLLYIGTCDNPDYLGPAPLEDIAEQIFNAAGPSGRNTEYLFELAN
SIRNLVPEEADEHLFALEKLVKERLEGKQNLNCI

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FIGURE 1866

GTGAAACTCCCTGCCCTGTTCTGTTTCTCTCTGACCACCAGTGCATGCAGCCCCTGTCATGTACCGCCTGTTTGC
TCAAATCAATCATNGACCCTTTCATGTGAAATCTTTAGTGTTGTGAGCCCGTTAAAAGGGACAGAAATTGTGCAT
TCAAGGAGCTTGGATTTTAAGGCAGCAGCTTGCTGATGCCACCAGCTGAAAAAAGCCCTTCCTTCTCCAACTCGG
TGTCTGAGAAGTTTTGTCTGCAGCTCATCCTGCTACAGAATGAACTCCTTGTAATTCTACAAGATATGCCATGGG
CCTTTTCACAGGGGACACAGGCTTCTTAAAACAACCCGGCTTCCTCACCCTATGTCCTTTATTTACAAAGCTGTG
CNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNTGCATTCCTGATTTGGCTCTTGGCTTGAATGTTATTAACGCCACATTTTTTAAATAGACAAAAATATGA
GATTAAAAATGTTGAATTTTACTAACAATAAAAGTTGTTCAAAGGAAAACTATAAGGTTCTTGTTTCAACTCTGT
CATAGGAAGAACAGGACAGTGAGCTGGCACAGAGTTAGGGAAATTGACTGTGTCTCATATTGGCTAGTGAGAGTG
ATCTGTTGGAATTGTATATCAAAATTTTAATGTACATACATTTGTCTAGCAATTCTACTATTGGGTATTTATAT
AGTACATATAAATATAAATGTATATGTTTAGTAAATATATACTTATAGTTAGTAAATATATTTTATATCTATTTA
GTAAATATACTAAATGTCAGGCCTCTGAGCCCCAAGCTAAGCCATCATATCCCCTGTGACCTGCATGTACATACG
TCCAGATGGCCTGAAGCAAGTGAAGAATCACAAAAGAAGTGAAAATGGCCTGTTCCTGCCTTAACTG**ATG**ACATT
ACCTTGTGAAATTCCTTCTCCTGGCTCATCCTGGCTCAAAAGCTCCCCCACTAAGCAACTTGTGACACCCACCTC
TGCCCGCCAGAGAACGATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTTACTGCAGAATATTTCCCAAAGTCTCATAAT
GATGCAGAAATACATGTGTACAAGACTTGTTCTGACACCTGGCACAGAACTGACAGTAGTGGCTCCCCAGGGAGG
CTGGAAGGAGGGTGGAGGACGTGACAGGGAAAGGAGATGCTTTATGGACAAGGGCCTAAGCTGCAGCTTTGCTTG
GAGCGTTACCACAAAACAAATACATACATCATGTGATGTT**TAA**ATATCACAATATATATTTAATAATAATTGGTG
GGGCTGAGCACGG

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FIGURE 1867

MTLPCEIPSPGSSWLKSSPTKQLVTPTSARQRTXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXLLQNISQSLIMMQKYMCTRLVLTPGTELTVVAPQGGWKEGGGRDRERRCFMDKGLSCS
FAWSVTTKQIHTSCDV

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FIGURE 1868A

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GAAAGAAATAATAACTTTAATTATAAGACGTATATGATTTTTGCAGTTTTACTTAGTGTGACATTGGGTTTATGA
GAATCGTGTACATTCAAGTCCAGGAATAATAATGGTCATCCAAATTGTTTGAAAGGAAAATAATCCCAGTGGCAA
AATGATGGTAGAATTTGGGTAATCTTTTTTTTTCCTTTTATGAAAAGAGATTTTATTGAAGGTAAAACATTAGAGG
TTCATTGAGAATCTCTAAATCCATGTTTTGACATTGTCAAGCTCATTGCAACTTCCAGATTGAGTAACACTTATA
ACACATTTCCTTTTCAAAGTGCAAGATTTTTAAAAGAGACTTGTCACATATTCATTTGGCTGGTTTCAAATGGTG
AGCTGAATGCTGGGTAATCTCTACTAGCTCCTTAATCAGATTTAAAATTCTCAGTGTTTCCTAGTTGTTTCTGCA
TACTTTATGTGAGTTGTTATAGCTGTAACATTACACTTTATTTGCTGTTTGTGTTTCGTGACTTTTGGTAATTCT
GGCATTTAGAAACCTTTCACTTTGCTTCAAAACGTAGTTATATTTTGGAGTTTTCATTTGATATATAATTATTTA
TTTTGCCCTTTTATTTCCCAAAGACATTGTAAGGGTTAATTAGATCATTATATTTTATTATTACAGATTAAAGTT
GGGCAGTAATCTTAATTATGATGGAATTATCATTATGCTAAGTAATTAACTTTACCTAGTTTGTTTTACAACTAG
AACCTGCCCTAAATGTTGAATATCTTCCTAGCAAGAAACAGTCTGTCATTTTACTTACACGATGTCTAACCAAAC
CATAACTTTACATAAACTAGTCGTTTCGGTCAAATAGAAAAATGTGTGAATGCCATAAAAACAAAAATTCTCAGT
TAAATGATACTGGGAAATAGGGAAGACAGCAAAGTGAGACTTGGGCTCAGGATGGTTCAGGAAGAAAAAAAAAGA
AAGACCCCTGAGTACCATTAATATTCCTCAGAAATTATTATTTCAAAAGGAAATATTTCTGTATTATAAATTTTT
CATGAGCAGCCATTATGAAATCTCACAAGAATCATAGAATTCAATAAAAAAGGTAGAAAGTAATTTTTTTACTTA
AAAATATAAATTAAAATAAATTTTTAAAATCATAAGCACATAAATAGAACTTACCAGGGAGAAAGAAAAACCTGA
AGGCACAATTTCTTTTCTGTTCAAAATGTGAACCCAGGATGTCTCTAGATGATGATGGATGATAGGTGGGGAGAT
TGTTTTTTTTTTTAATACAGAATCTCATAGTTTTGGATTAATTAGCACCAATCAGTTTAAACACTGACTGTTAGA
ATAGCTGCATGGGTTTTTTTCTTTAAACTAATTAAGCGTTGGCTACTTAGTATAAGTAAGTATAAGCCGAATTAA
GGTTCTGCTACATCTGTGTTTAGAATATTTTTTTAAAACTAAATAAGTGTTGGCTAGTTTTGCGGTGTAAGCAGA
ATTAAGGTTCTGCTACCTCTGTGTTTAGAATATTCCCAATGGATTTTTCATTTTTCAGGTGCTATTTTTTGACCC
TGTATCCACTTTAATTTAAACCGAATTGGTAACGTTTCTCCTCTGTCTCTACATATATTCATGCTTTCACCTGC
TCTTTTAACACCTGCTTTTAGTATCTGAGGCACTTTTTCTGAACTCTACTTGTGCACTGGATCCCTCCTCCTTTC
TCTGCCAGGCTGTGTTTACTTTATCCTTACATCACCACTTAGTGATTCCTTTCTTTGTATAAACATGGTAAATGT
CTNCATTAGCCTAAAAGGAAAGACCAAATAAAACCTTTCCTACCACTTGGATGCATTTGCATCCTGACTTCTGAA
ATGCCTCCAGCCTCCATTTTCTCCCTTCCCAGTTATTCCTTAGCCCAGCCATCTCTGTCTTTAGCTCCTACAATT
TTCTTAGGATATTCTGGGAAAGATGAGCGGAGACTGCCCGCCTTGTCAAATCTAGTGTCTTTTTTTCAGTCCTCA
CACTGCTTGACCTATGTATAACCTCCTATACTTCCCTCTTTGCATACTCCTCTGGGTTTTCTGTGGTAGTCAAGA
TTCCTCCCTGAGATTTATTTCCCATGAGTCTTGACCCCTCCCCTCAGTTGGTGCTATTTCCCCCTACCCGCCCTC
CGATGATCTTATCAGAGCCCACAGGTTCAGTTTTCTTTCATGCTACCTGAATGTCCTGATAAACTGGCTCGCTCT
CTTCTTTACCTTCCATAATGGCATTACCATTTACCACGCCACCCAAGATACTTACTAGGAACCTCAAAGTATTGT
ATTCTTTTTCTCCATCACACTCATACTTAATCATCAAGTCCTTTTGAGCTTGTCTCCTCTTGAATATGTCCCTTC
TTAATTCCTGCTGCCTTCTTAGTAAAGGCCTTCATTCTTTTTTCCCTAGTAATAATCTTTTCCATATGTTCCAGT
TAAAATACCATGTTCTCCCTATTCCTTATTACATAGCTAGCATTCCTTGAAAAAAAACAATTCTCTCAGGCCTCC
ATACCTTTAGCATGTTACCCACTCTGCCTCTGCTCTTCTGGAACTAGAACACTCATCCTTGAAGGCTGGGCTTCT
GTATGAAGGTTGGTCCTGCCTCCTTACTTGAGGTGAAGCTTTGTACATGCCTGTATTACGGACATCCTCTTATTT
AAGTGTTTGTCTCTTTCGTCATTGGGACTCCAGCACCCAGCATAGTCCCTAGTATACTAGTTGGTGCTGAATAAA
TAGTAGCTATTATTAGAAAAGGAAGGGTGAAATTGACATGGGAGTTAGTAAAATGTATATGGAAATGATTTTTAA
AGGGAAAGGTAATGATTTTCTGGCAGGAAAAGCAGCAATGACAAGATTACTTAAGTCTTGTGAAATAACACTTCT
CTTCCTTGACCTGCTGCTTCCCTTTTTTACCANACACACACGCACACATACCACAGCCCTTTGAGACTGAAAGCA
GCTCTATTGAGAATAGTAGTGTCAACTGTATTATGTAGAAATTCTAAAGTTTTTGGGATTATTTCATAGCCCTGA
CCTTGCTACTTCTCTCCACTTTATGTGGCAGGTTTAATCTCAGGTCTCCCTCATACACTTCTCAGCCTCAGCACC
TAACCCTCACACAACACTCCAGTATTGATGCAGTCAATCTTGTATAACATTTTTTGAATGTCCAATGTGCAAAGC
ACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAAACTCTTGCTCTCAAAGATGTCAGTCTTTTTCTTTGCA
AGGATAACACATGTAGAGTAAAATGCATAAAGGGGACTAATTTTAAATGTACAGCTTAATTAATTTTTATGTATG
TTAACACCCATGTCACCACCATGTTTAGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNT
GTACCTACACCTCTAAATCTATTTTCAATCTTAATGGCCTTTTAAATAACTGGGCTTCTCACAACCATAGTGAAC
AGAAACAGCTGGGTTGTCAACGTCTAACCTAATACTTCAGGAAAACTCATGATGGTTTCCATGTTAAGAGAGACA
```

FIGURE 1868B

TGGAGCAGGGCACTGGCATGGTG

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FIGURE 1869

MMVSMLRETWSRALA

FIGURE 1870

ACCACAAGGAAATTGTTTCCCTTTTGTGAAAAGATGGGATTGGAGTAAACAGTCCCTTCAAGGTCTGACAATCTT
TGATCCATGTATCTGGCCCAGTTCCAGGAGGACATGTTAAAAGGGTTGGGACAGCAGGGTGACAGGTTCCGAGGT
GGATGCGGACCACGTTGAACTCAAGCCTTGCACTCAGCTTTCCTAAGGATTCCCCTCGTACTATATTTTTTGTCA
GGCGACTCCGCGGTCACCTTTGCTCCGCGGTGATTGGCCTGCAGCGGGGTCCTCGTGTTTGTCCAATATGGCGGC
GCCCAGTGGCGGTGTGAACTGTGAGGAGTTCGCCGAGTTCCAGGAATTACTCAAGGTG**ATG**AGGACAATTGATGA
CAGAATAGTACATGAATTAAACACTACGGTTCCAACAGCTTCCTTTGCAGGGAAAATTGATGCCAGCCAAACCTG
TAAACAACTTTATGAGTCTTTGATGGCAGCTCATGCCAGTAGAGACAGAGTCATAAAAAACTGTATAGCCCAGAC
TTCAGCAGTAGTAAAAAACCTCCGAGAAGAGAGAGAAAAGAATTTGGACGATTTAACGTTATTAAAACAACTTAG
AAAAGAGCAGACAAAGTTGAAATGGATGCAGTCAGAACTGAATGTTGAAGAAGTGGTAAATGACAGGAGCTGGAA
GGTGTTTAATGAACGCTGCCGAATTCACTTCAAGCCTCCAAAGAATGAA**TAA**AGAGAGATTCTTTTTTTTTTTT
TTTTTAAAGGACTGGGTCATCTCATAAGAGCTAAGCATGACAGATATCAACAGGGCGGGCTTCCTAGGATGATTT
CTGAGCCAACAGTCCAAGACCTTTTGTTGATTTCAGCCCCACTTAGCCAAGACCTCAAGTATAAATAATTCTGAT
AATTATGGAGAAATCAACTGCTATTTTATACTGATTCTGTTAAAAAAAAAGTTTTGTAACTATTAAAATAATGTT
CTGACTCAGTGTAAAAAAAGAAAAACCAAACCTG

FIGURE 1871

MRTIDDRIVHELNTTVPTASFAGKIDASQTCKQLYESLMAAHASRDRVIKNCIAQTSAVVKNLREEREKNLDDLT
LLKQLRKEQTKLKWMQSELNVEEVVNDRSWKVFNERCRIHFKPPKNE

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FIGURE 1872

TGCCTCAGGATCAACAGTGGTTAGCCAAAATGGTCCAGTATAATACACCATATATGCTTATG**TGA**TTCCCTTGCT
TTGTTGTTACATTTATTAGGTCTATACTAAATTAGCCTTCAATGATGAAGACAGACTAAAGCTAAGCCACATGAG
ATCAAGGCCATTTCAACATGGTTGCCTGGAATTCTCCAAAAAACCTGTGGGTTGTGGGTTTGGCATGTCAAGCTT
CAGACCACAAGGTCTTAAGTGGTAAATAGATGCGTTGTCCTAATACTGTTCCAAGGTAGAGAATCCTGATGATAA
GGAGTATAGGAAACTCAAATAGTTCATTATTTCTAAAAAATGTATATTTTAAGGCATGATACAAGTCCTACAAAC
CTCATAAGTAGGTGAAAAAAAAAACCCTGTGGAGTGATAAACATTCTATAAAACCTGGAAATTTGTGTGGAGTTC
GCCTAAGCTCACTTTTCCTAAATATAGCTATATAATATTGTAAACAAATTTGTTTTTTAGAAACTTTTAAGAAGA
TTTCTGTGAGCGTAATTGACAATATCTGCATTAGAAACAGAAAGTATTATCCATCATAAATATGAGAAAAGTGTG
TGTCCTCTTTCTGACAATCTTTTTATCTTATTTTTTTCAAACGTTGTGGTTGTTGTTTCAGCACCATTTTAAAGA
ATTTGAATACAAACAATCCCTCAGCTTATCAGGTTGACATTTATGAAGCTGACCTCATCACTCTTTATCTTTTAT
GTCTGCAGTATAAATAGCATAGACATTTGGTGTGAAGGGAGGAGAAAGGAAGTAGTAGTTCTGAGAATATTCATT
TGAACAGCGTGACTATGGAAGAATGAATAGCAAAAAAAGGAGAATTTTTTTAAAAAGATCTCTCACTGGGAAAAG
AAAAAGTTATGCATTTATAAAGTAATTAAACTGGTTTTCCTTGTACTTTATTAATCTGAATCTAATGGCACTTCC
TTACGAGGGTTTTCAGATGTGCTTGTAGTTAATGGCAACATTATCAGAATGACTACACAGACAGTCCTACTCTGA
GGAGATGACTTTGGAAGAAACCCATTTGGAACTACACACCCTGCTATGTCTGTGGAGAAATGGAACTGCAATCCT
CAAGAGTCACACTTCATATTCCTTCCTTTCAAGTGGTTGATAAAAGGTAGTGCTTCAAGCACAGGATTTATGGAA
TAGTTGGCAAATTAAACAACATGCTTTTTATTTTGACTACCATTTAAGTGGAATCTTTGAACTTTTTTTTTGACA
TGTGAATCTCTAATGTGGTGAGAGAGAAAAACATAAAAATATAAAAACATTCAAGCAATCG

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FIGURE 1873

PQDQQWLAKMVQYNTPYMLM

FIGURE 1874

TGGCAGTGATGTCATTCCTTACTAGGCTTCCAAAGCCACTGCTGTGGCCACAGCTTCCATGGAGACAGGCAAGC**T**
GAGCCTCTATGTGGCACCAATTCCTGCAGCTGTTTGTGTTGGAGGGAAAAAAATCCAAATGGACATCAACAGCTT
TCATCAACTAAATAACCACAGAAAATATTTATGAAGACTATAAAGCAATGATTACTTTTGAATTGGAAAGGAATC
ACTATTATTTGAAATGTTTCTTCAAAAGTGAGCATCCGGACAGGAACCATCATGGATGCTGAGGCCATGGATGAA
GGCCTACTCGGGAAGATGATATCCTTGCAGTCTCAAAACGGCACCCCACAAAGGTGATATCCTAATTTACAAAGG
GAAAAAGGTACCTTAATCTGAAATCTGGCAAATGCAGCCTCAACAGAAGTGACAGAATTGAACATCGCCAATAAT
GGGACACACAGACATCACATGCCCCCAGTCTGATGCACCACGGAGTCGTCTCTGATGTATTCTTGTCAAAAAATG
TTTGCCTGATTCTAATCATGAAAGAACAATTAGAAAAAATCCAAATTGACAGATATTCTGCAGAATAAATGGCCT
GACCTCATCAAAAACATCAATGTCATGAAAAACACAAAACATTGCAGATAGCGTGAAATTAAAGATTACAGAGAT
ATAACTTAATGCAAGATCTCTGACTGGATCCTAGACTGCAGGAAAAAGTCTGCTATAAAGAACATTTGGATCACT
TGTAGTAGCTGGGAAATAAAACAAAACATTATTTGTAAAAGGGGGGAAATCTGAACATGGGTCTTGCAGTATTTA
TGACAGTTTTTGCGGGGCAGAGATTTCTAGATTGACAGCTGTTTTAGTACTTTCAAGGTGATGCTCTGTCTGCTG
GTTTGCATTGTTTCTGTCTGAGTTAAGAGACTGGCAGAACACAGAGTTGCAGTAGCCAAACACTGGAGAAAGCTG
GGCCCTACAGAAACCTAACGCTGAAGAAACCTCAGGAGCCAAACTGGTGGAGAAAACAAAGAGTCCTCCCTCTCT
CCCTTTTCAAATAATGATCATACATCTTCAAGCTGTCTGAAATGGTTAAGGAGTTCAGTCTGTCGTCAGGCACAC
ACCAGAGCCAGCTAGCCCACACAGACCCCATCAGAGCAAAACAGACAAGAGAATTTAATTCATATCCACATAGAA
AGGACTTCTAGGTAGGAGGTAGACCCTTTAGCTCCCTTCCAATTAAAGGAGTCCCCAATTCTGGCACCTGAGAGT
CCCCTGGGTCTAACAGCTATGATATTTATGTAGTGTGTTGCTTACCTAAATGAATACAATTTCCTTCCAGACACG
TGACACTGATATTAAAGTGCTAATGAGAGGGATCTATTTCTTCTTGTACGCTAAAAGAGAAACAGTAGTTCAGAT
TTCCCATCAGAAGTCCGAGGACTTTGTTCTTGATAACTACTACCAATAAAAATTGAGTATTTGAAAAATTCCTTT
GTATTTTCCATCCATACACATTTTTTTTTAAAGCATTTTAGGAAGTCCTCTAATTATATAGTAAAAATTGTCAGC
AATGGCCTGCTAGTTTTCTATTTGACCTAATCACAACCATCCTCGTTAGGTCCTGAGGTCTGCTCTGCTGCTTGG
CCAAAACCAAATGGTGCCAGGTCACAAAGCACTTGCACATGTGAATCCTGCATCCATTCTACAATGGGTCACTAT
TGACTGAAATACTTTAATAAAAATGATAGAGCACATAAAGCTTGCTGTTGACAGAAACTTCCGTGCTCAAGCAAG
GCAGTGCTATACATGGTGAGACCTTGCACAAAGTCAGTTAACTAACAGATGATCTAGAAGCAGGTGACACAATGA
AATACCCTTTGGAGCTGTTGCCTATGTCTGTGGATAGGCTCTTTGTAGCTAGGTTAGGCTTCTGTGTTAAAGTGT
GTTAGAAGAAAGCATCACATAAGGAAAATAGAACTCTATTCGTATGTTTTTTCAAAACAGAAGTCAAGTCACATT
CAGGCAAACCAAATCTGTAACATTCAAGAAGATGCAGTGACTCTTCCGCATCTTAGAGCCACGGTGTCTGAGGTG
GCTGGCATGGCTCCAACACGCTGGCTTCCCTGTCAGTGGATCATTTACAATATGGTGCATTTCAAATTACTGGTG
AATTCACTGAATACTGGCTGTTTTTTTTTTTTAGGGGTAATCTTATACATAAAATTTAGGAAAAGAAAGAGAAA
AAAGCAAAAATGACAGAAATAACTCAAAAGTTCCTAAAATTTATGTGTATCTTTTCGTACCTGTGAACTCCTGAA
TAAGTATTTATATCTGACAGGTACAAATACAATAATTATATTTTTAAGTAAAACCTATTTAATAATATGAAGTAT
GGTGTTAAATACATGTATTAAAAGATAAGTAACTTCAGAAGTCTTCTGACTTTTTAATTGTAAAATAAGTGAAAA
CTGTTTTGTGCTTTTTTATTTACTGTATGC

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FIGURE 1875

AVMSFLTRLPKPLLWPQLPWRQAS

FIGURE 1876

TTTCTCTCACGTGCCTATGGAGGAGAGAACACACATAGTTGGATTGATCCATACATAATTGGGCGTTTGCAGGCA
AGTATGAGGACAAGAAGACAAAAAAGATGAAAGTATTTGTAGGCATGATTCAAGATTAGAGTCACAGTGTTCAAG
CTGCTCGCTGATGAAAAGGAAGCCAAGAAAGAGCTGTGAGAGTGAGGAGAGGATGGAAGCCTTTAGGTTCTCCAT
TCAATCCAAGAACGGAGCGGGAGAGCTGGGAAGGATAACGGGTTTGCTTAGAGGGTAAGATATGACATTTAATAC
ATTCTTCAGAAGTGAGATGTTTAAAGGAGTGACCAGGTTGACTGTGTGACCATGAGTATGAGTAAATGAAGTAGA
ATGAAAATGGTCAATGTAGTTGAGAAAGTCAAATAATGGTGAGTATTTTAGGATATAGTTGTGATTTACAATTTC
AGGTGTGGGTCAGTCAGAGTTTGCTGTTGCTGAC**ATG**GTTGACATGTTTGTTTTACTACTGCCACCAGCAGGAGG
AGATGAGCTGCAGGGTATCAAAAGGGGTATAATCGAGATGGCAGATCTGGTAGCTGTAACTAAATCTGATGGAGA
CTTGATTGTGCCAGCTCGAAGGATACAAGCGGAATATGTGAGTGCACTGAAATTACTCCGCAAACGTTCACAAGT
CTGGAAACCAAAGGTAATTCGTATTTCTGCCCGAAGTGGAGAGGGGATCTCTGAAATGTGGGATAAAATGAAAGA
TTTCCAGGACCTAATGCTTGCCAGTGGGGAGCTGACTGCCAAACGACGGAAGCAACAGAAAGTTTGGATGTGGAA
TCTCATTCAGGAAAGTGTGTTAGAGCATTTCAGGACCCACCCCACAGTCCGGGAACAGATTCCACTTCTGGAACA
AAAGGTTCTCATTGGGGCCCTGTCCCCAGGACTAGCAGCAGACTTCTTGTTAAAAGCTTTTAAAAGCAGAGAC**TA**
ATAAAATTCATCCTGTATAATAATTTTACATATCATTTCATAAAGTATTTTAATAGAAA

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FIGURE 1877

MVDMFVLLLPPAGGDELQGIKRGIIEMADLVAVTKSDGDLIVPARRIQAEYVSALKLLRKRSQVWKPKVIRISAR
SGEGISEMWDKMKDFQDLMLASGELTAKRRKQQKVWMWNLIQESVLEHFRTHPTVREQIPLLEQKVLIGALSPGL
AADFLLKAFKSRD

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FIGURE 1878

AAAGGAAAACTGTAACTTCTTTAATAATACATTATTCAAATTCAAAGATGATAGCACATTTTGAGATTCAGATTG
GTAATGTATCTTTGATTACACTTTGCAAATGTATTTGACAATTAACCATATACTACTACTTTTTATTACTGAGGT
AGGAGGCAGGACTAGACTCTGGAGGTGGGGATTGGGCTCCAGACCACACTGAAGACAAGCTGAAAGGGAAGAGGT
GAAAGAGTCTCTCCATAAAACACACTCACCAGTGCCACGTCAGGTTACCATTGCTAAGGCAACAGCTGGAAGTTT
TGGCTCCTTTCCATAGCAACAATCCCACGAXCCTGAAGTTACGACCTTTTTTCTAGAAATTTTGGCATAATCCAC
CCCTAAATTTGCATATAGTTTAAAGTGGGTATTAATGTGATTGCAGTACTGCTTCCGAGCTGCTACTCTGGGCAC
ACTGCCTATTGGGAGCC

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FIGURE 1879

TGAAGTAGAATTTTATTACAGAATTTCACAAAGAACTTAATATCTAAGTGTAAAGATAGAAAGCATTGAAATTCA
TTAGCATCTATAAATACAAGATGATTTTCTCATACCTACCTCTACCACAACCCTAAATCAAAACAATTTCTTATG
AAGCTTCAGTTTTCCCAGAGGTAAATTCCAGTACAATATTTGGCATGCTATTAAGTGAGTGGGTGCTGAAATCCT
ACTTCGTTTTCCTTTTCTTTCAAAGAAGGAAAATAAGGACTGTGCATATCGAAAATCAGCGTTTCTAGGAAGTTG
AAAGTTTGGGACAGTCTTCTTGGACACTCAATCCTAAATACATGAAAGGCAGCTACTAGCGCAGCCAAGGCTGTA
ACACAGTCGTCCACCTTTGTGAGCCTCTCCCTTTCTAAATATAAAGAAAATTCGCAGACCTCCATGTTGAAAGGG
TTTTTAACTTCCAACACAGGTGTGGACACTTGCACCTGTTCATTCATGATGACAAAAAGGCTGGGATCATCCCCA
AAAACATCTGGGAGGAGTAAACATGTGGCTGTCATCTTCATGTATTTCAACATGTCTTCATCTGTGTAATGTTTC
ATTTTTTCTTGCAATACAATATTGATTGGATTGTCCACCACTGAAAAAGAAGTCAGTATATTTTCTGAATAGGAT
TCCAAAATGTGCCTTGTTTTCTTATAAATATCTGTTCTTGTAAGAAGTTGGAATTCTCTGAACATCTGATAAGGG
CACTTCAAGAAAGGAAACAGTTTAAGAATGTCCTTCAGAGGTGTTCGGCTGCCAATCATCTTTCTTCTTATTTCC
AAAGTTTGGCTCATTCTCTTGTCAATTTCTCTCCAGTCCTTTTCTGTTTTCACGTATTCTTGCTGGAACCACTTA
ATATGTTCATCTAGCTCAGAATCAAAACAAACAGCTTCTTCTTTTATCTGGACAAGTTTAATTTCATCAAATCTT
ATATCAGCAAGAGATTTCCTTGTCTGGCCTCTTCGGTGTCCAAATTTACACTTATTTCTAATCACTTGCTCATCA
TCTTCTATGGGTCTTCGAACATATTTAAAGCGATCTTTGAGGGCTCGTTTCCATAAAAAGAAGCCACAGCCATCC
TCATCCAGGAAAGGGTGGGCCTGCAGCAGGGCATTAACCACGTCATTGTACTGCTGGGTGCTGGGGTACAGTGAG
CCTTCCAGATACTTAGTCATGTCGGCCTGGAGAAACTCAATGATCC

FIGURE 1880

GGGACAGAGTGATCAAGGCAGAGTGATCTAAAGGACACAGTAGTACTTCTTTAGGACCCTGGCAGAATGGAAGAG
AGCATCTGGCTTCTAAGGCACTGCACAAACTTGAATGATCTTCTTCAGAATTGACAAGGAAAGGCCATGTTATGT
TCACCCTGGGTTAAGTTTTAAGTGTATCTTATTTAATTTTTTTCAATATGAGTCATCTCCAGATACTGTGATGAT
TTCCAAATAACCAGAATCTAGATGACTAGAAATTTACTCTAGCTGGCTTTAGACAGGAAGCGTGAGGACAGAATC
CAGCTGCTTCCACTCCAGGGTAGGTCTGAAGCCAACCGTCCTCGGTTTCCTGGCCTGTGGCATCAGTCTGGTTGG
ATTACACACAAAGCCCTGCAGATCTGCTGCTTTTCCTGATTCTCCTGTCCTGAGTGAGTGCAAGGGGCTCCCCTG
TCGCCGATGTGTTCTTTGAAGCAGATGCTGTGCCTGATACCTGCTGGAGAGTCCCACCGCCTTGAGCTTCTGGGT
CGAGAAAGGCCAAGTTGCACACTACTGAGAGACTGCCATGCACCCCCTGGAGGCCTCAGAACATTCGACATGCTC
CAGTCATGGCCACGGCAGTGACTGCTGATTGCCTAACCCCACATGTGTTCTCCCCCTTCCCTGATAATCAAGCCC
CTGATTTTCAGCTGGGCACAAAATAATTCTTCCTAGAACAACTCCACGTGTGTTATCGCCCTTGCAGCTGGGGGT
GGCCACCACTGGGGAGAGGCAGGGTGAAGAGGTCGAAGGAGCCTGAGTTAGCAGG**ATG**AGCAGTGGCCAGGTAA
CCCCAGACCCATTATCCTCTGGATTTCTTTTATGTGAAACAATAAAATGTCTTGTATTCGAAAAAA

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FIGURE 1881

MSSGQVTPDPLSSGFLLCETIKCLVFEK

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FIGURE 1882

TTATGCAATTAGGGCTTGCTTAATTTTGGTAATTTGTCTATCATTTTGTGTGCATATCAGAAGATAAATATGTGC
CTTTGGAAGGCCTTAGCACTATTCACTTGGAGTTTTTACAGAAAATATTTGGGGGTGGCCAGCATACCCAGTTGG
TGTTAATCCTTGCTTATTATATCCAGTGCCTTGTAGAGTGCAGTAATTTCGTTGAAAATCTGCTTGTGAATCTTT
GATGTATACATTATCCAAAAATAACCTGACTTTAAGGTCATTGCTATCTGGTTTAGGAGTCAC**ATG**TTTGAGAAT
TCTGGGACTATTAGCACCACACACTTTGTAATTTTATATCAGATGTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNCACACCCAGCCCAAAATTATTTTTTGGCTTACAAAAGAAGTTGCTTTAAA
CTTCTGTTTCATCTG**TAG**GATATGGATAACAATAGTTAAGAGTTGTGAGAATTAGAAGTTAGAGACCTTACTCAG
AATACTAGGGAGCAGGTGTTAGGGATTTTGGAGCTTTACCTTTTAAGAACTTTTGTCCATATAGTAGACAACATA
CTCACCAGTGAGGACCTCAAATAGCAATATTTCTGTGGTGAAATTTGGGGATATTTATGTTAAATAAACAGCATG
TCAGTCAAGGTTGGGTTTTCCTGACAAAATTTGAAAGAATTTCTCTGGATTTTGGTTTTCAGGACTGGTGTGACT
TAACATACATGGCATAGATAGTATACGTCTGTTAAGTCAGTAATTACACTTACTTGAGCACAGGTACTGTTCAAG
GTGCTGAGAATACAGTATAGACAAATTCCTACCCTTATGAAGCTGATGTTGCAAAAAA

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FIGURE 1883

MFENSGTISTTHFVILYQMXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXHPAQNYFLAYKR
SCFKLLFHL

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FIGURE 1884

GGAAACTGAAAACACACCTGCAGCATCTCCGGTGGAAAGGAGCGAAGAACACGGACTGGGAGCACAAAGAGAAGT
GCTGTGCGCGCTGCCAGCAGGTGCTGGGGTTCCTGCTGCACCGGGGCGCCGTGTGCCGGGGCTGCAGCCACCGCG
TGTGTGCCCAGTGCCGAGTGTTCCTGAGGGGGACCCATGCCTGGAAGTGCACGGTGTGCTTCGAGGACAGGAATG
TCAAAATAAAAACTGGAGAATGGTTCT**ATG**AGGAACGAGCCAAGAAATTTCCAACTGGAGAAGGTCAGTGCACCA
GATATTCTGAAACCTCTCAATCAAGAGGATCCCAAATGCTCTACTAACCCTATTTTGAAGCAACAGAATCTCCCA
TCCAGTCCGGCACCCAGTACCATATTCTCTGGAGGTTTTAGACACGGAAGTTTAATTAGCATTGACAGCACCTGT
ACAGAGATGGGCAATTTTGACAATGCTAATGTCACTGGAGAAATAGAATTTGCCATTCATTATTGCTTCAAAACC
CATTCTTTAGAAATATGCATCAAGGCCTGTAAGAACCTTGCCTATGGAGAAGAAAAGAAGAAAAAGTGCAATCCG
TATGTGAAGACCTACCTGTTGCCCGACAGATCCTCCCAGGGAAAGCGCAAGACTGGAGTCCAAAGGAACACCGTG
GACCCGACCTTTCAGGAGACCTTGAAGTATCAGGTGGCCCCTGCCCAGCTGGTGACCCGGCAGCTGCAGGTCTCG
GTGTGGCATCTGGGCACGCTGGCCCGGAGAGTGTTTCTTGGAGAAGTGATCATTCCTCTGGCCACGTGGGACTTT
GAAGACAGCACAACACAGTCCTTCCGCTGGCATCCGCTCCGGGCCAAGGCGGAGAAATACGAAGACAGCGTTCCT
CAGAGTAATGGAGAGCTCACAGTCCGGGCTAAGCTGGTTCTCCCTTCACGGCCCAGAAAACTCCAAGAGGCTCAA
GAAGGGACAGATCAGCCATCACTTCATGGTCAACTTTGTTTGGTAGTGCTAGGAGCCAAGAATTTACCTGTGCGG
CCAGATGGCACCTTGAACTCATTTGTTAAGGGCTGTCTCACTCTGCCAGACCAACAAAAACTGAGACTGAAGTCG
CCAGTCCTGAGGAAGCAGGCTTGCCCCCAGTGGAAACACTCATTTGTCTTCAGTGGCGTAACCCCAGCTCAGCTG
AGGCAGTCGAGCTTGGAGTTAACTGTCTGGGATCAGGCCCTCTTTGGAATGAACGACCGCTTGCTTGGAGGAACC
AGACTTGGTTCAAAGGGAGACACAGCTGTTGGCGGGGATGCATGCTCACAATCGAAGCTCCAGTGGCAGAAAGTC
CTTTCCAGCCCCAATCTATGGACAGACATGACTCTTGTCCTGCAC**TGA**CATGAAGGCCTCAAGGTTCCAGGTTGC
AGCAGGCGTGAGGCACTGTGCGTCTGCAGAGGGGCTACGAACCAGGTGCAGGGTCCCAGCTGGAGACCCCTTTGA
CCTTGAGCAGTCTCCATCTGCGGCCCTGTCCCATGGCTTAACCGCCTATTGGTATCTGTGTATATTTACGTTAAA
CACAATTATGTTACCTAAGCCTCTGGTGGGTTATCTCCTCTTTGAGATGTAGAAAATGGCCAGATTTTAATAAAC
GTTGTTACCCATGTCAAAAAGGAGATAACCCACCAGAGGCTTAGGTAACATAATTGTGTTTAACGTAAATATACA
CAGATACCAATAGGCGGTTAAGCCATGGGACAGGGCCGCAGATGGAGACTGCTCAAGGTCAAAGGGGTCTCCAGC
TGGGACCCTGCACCTGGTTCGTAGCCCCTCTGCAGACGCACAGTGCCTCACGCCTGCTGCAACCTGGAACCTTGA
GGCCTTCATGTCAATGCA

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FIGURE 1885

MRNEPRNFQLEKVSAPDILKPLNQEDPKCSTNPILKQQNLPSSPAPSTIFSGGFRHGSLISIDSTCTEMGNFDNA
NVTGEIEFAIHYCFKTHSLEICIKACKNLAYGEEKKKKCNPYVKTYLLPDRSSQGKRKTGVQRNTVDPTFQETLK
YQVAPAQLVTRQLQVSVWHLGTLARRVFLGEVIIPLATWDFEDSTTQSFRWHPLRAKAEKYEDSVPQSNGELTVR
AKLVLPSRPRKLQEAQEGTDQPSLHGQLCLVVLGAKNLPVRPDGTLNSFVKGCLTLPDQQKLRLKSPVLRKQACP
QWKHSFVFSGVTPAQLRQSSLELTVWDQALFGMNDRLLGGTRLGSKGDTAVGGDACSQSKLQWQKVLSSPNLWTD
MTLVLH

FIGURE 1886A

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CAACTACGGCTAGGTACGAGGCTGGGTGTCGGAGGCTCCGTTGCCTGCTCCCGGAGGGAGACGCGCTGCCGAGGA
GAACCCAGCGGGAGAACATTTCAGGATAGGAATAGGCCAAGTGCTGAGAAGATGAGTCTTAGGATTGATGTGGAT
ACAAACTTTCCTGAGTGTGTTGTAGATGCAGGAAAAGTCACCCTTGGGACTCAGCAGAGGCAGGAGATGGACCCT
CGCCTGCGGGAGAAACAGAATGAAATCATCCTGCGAGCAGTATGTGCTCTGCTGAATTCTGGTGGGGGCATAATC
AAGGCTGAGATTGAGAACAAAGGCTACAATTATGAACGTCATGGAGTAGGATTGGATGTGCCTCCAATTTTCAGA
AGCCATTTAGATAAGATGCAGAAGGAAAACCACTTTTTGATTTTTGTGAAATCATGGAACACAGAGGCTGGTGTG
CCACTTGCTACCTTATGCTCCAATTTGTACCACAGAGAGAGAACATCCACCGATGTCATGGATTCTCAGGAAGCT
CTGGCATTCCTCAAATGCAGGACTCAGACTCCAACGAATATTAATGTTTCCAATTCATTAGGTCCACAGGCAGCT
CAGGGTAGTGTACAATATGAAGGTAACATAAATGTGTCAGCTGCTGCTTTATTTGATAGAAAGCGGCTTCAGTAT
CTGGAAAAACTCAACCTTCCTGAGTCCACACATGTTGAATTTGTAATGTTCTCGACAGACGTGTCACACTGTGTT
AAAGACAGACTTCCGAAGTGTGTTTCTGCATTTGCAAATACTGAAGGAGGATATGTATTTTTTGGTGTGCATGAT
GAGACTTGTCAAGTGATTGGATGTGAAAAAGAGAAAATAGACCTTACGAGCTTGAGGGCTTCTATTGATGGCTGT
ATTAAGAAGCTACCTGTCCATCATTTCTGCACACAGAGGCCTGAGATAAAATATGTCCTTAACTTCCTTGAAGTG
CATGATAAGGGGGCCCTCCGTGGATATGTCTGTGCAATCAAGGTGGAGAAATTCTGCTGTGCGGTGTTTGCCAAA
GTGCCTAGTTCCTGGCAGGTGAAGGACAACCGTGTGAGACAATTGCCCACAAGAGAATGGACTGCTTGGATGATG
GAAGCTGACCCAGACCTTTCCAGGTGTCCTGAGATGGTTCTCCAGTTGAGTTTGTCATCTGCCACGCCCCGCAGC
AAGCCTGTGTGCATTCATAAGAATTCGGAATGTCTGAAAGAGCAGCAGAAACGCTACTTTCCAGTATTTTCAGAC
AGAGTGGTATATACTCCAGAAAGCCTCTACAAGGAACTCTTCTCACAACATAAAGGACTCAGAGACTTAATAAAT
ACAGAAATGCGCCCTTTCTCTCAAGGAATATTGATTTTTTCTCAAAGCTGGGCTGTGGATTTAGGTCTGCAAGAG
AAGCAGGGAGTCATCTGTGATGCTCTTCTAATTTCCCAGAACAACACCCCTATTCTCTACACCATCTTCAGCAAG
TGGGATGCGGGGTGCAAGGGCTATTCTATGATAGTTGCCTATTCTTTGAAGCAGAAGCTGGTGAACAAAGGCGGC
TACACTGGGAGGTTATGCATCACCCCCTTGGTCTGTGTGCTGAATTCTGATAGAAAAGCACAGAGCGTTTACAGT
TCGTATTTACAAATTTACCCTGAATCCTATAACTTCATGACCCCCCAGCACATGGAAGCCCTGTTACAGTCCCTC
GTGATAGTCTTGCTTGGGTTCAAATCCTTCTTAAGTGAAGAGCTGGGCTCTGAGGTTTTGAACCTACTGACAAAT
AAACAGTATGAGTTGCTTTCAAAGAACCTTCGCAAGACCAGAGAGTTGTTTGTTCATGGCTTACCTGGATCAGGG
AAGACTATCTTGGCTCTTAGGATCATGGAGAAGATCAGGAATGTGTTTCACTGTGAACCGGCTAACATTCTCTAC
ATCTGTGAAAACCAGCCCCTGAAGAAGTTGGTGAGTTTCAGCAAGAAAAACATCTGCCAGCCAGTGACCCGGAAA
ACCTTCATGAAAAACAACTTTGAACACATCCAGCACATTATCATTGATGACGCTCAGAATTTCCGTACTGAAGAT
GGGGACTGGTATGGGAAAGCAAAGTTCATCACTCAGACAGCAAGGGATGGCCCAGGAGTTCTCTGGATCTTTCTG
GACTACTTTCAGACCTATCACTTGAGTTGCAGTGGCCTCCCCCCTCCCTCAGACCAGTATCCAAGAGAAGAGATC
AACAGAGTGGTCCGCAATGCAGGTCCAATAGCTAATTACCTACAACAAGTAATGCAGGAAGCCCGACAAAATCCT
CCACCTAACCTCCCCCCTGGGTCCCTGGTGATGCTCTATGAACCTAAATGGGCTCAAGGGTGTCCCAGGCAACTT
AGAGATTATTGAAGACTTGAACTTGGAGGAGATACTGATCTATGTAGCGAATAAATGCCGTTTTCTCTTGCGGAA
TGGTTATTCTCTGAAGGATATTGCTGTGCTTTTCACCAAAGCAAGTGAAGTGGAAAAATATAAAGACAGGCTTCT
AACAGCAATGAGGAAGAGAAAACTGTCTCAGCTCCATGAGGAGTCTGATCTGTTACTACAGATCGGTGATGCGTC
GGATGTTCTAACCGATCACATTGTGTTGGACAGTGTCTGTCGATTTTCAGGCCTGGAAAGAAATATCGTGTTTGG
AATCAATCCAGGAGTAGCCCCACCGGCTGGGGCCTACAATCTTCTGCTCTGTTTGGCTTCTAGGGCAAAAAGACA
TCTGTATATTCTGAAGGCTTCTGTGTGACAGGAAACCCAAGCCTAAGAAACAATTAAGTGGTTCTCATCTCTAAT
TAACTGTGAAACCATTTAATCCAAACATGTAAGCACACACTCACTTATTAAGTCACATACTTTTCTAGGTGCTGG
GGATTGAGAACGAATCGATGTAAGATTCCTCCTTTAGGGCAGAGACAGACCACTGACAAATACACAGATAGACAA
GGAATTTCCCATGGTAAAAAGGGATATCAGTAATTAGAGGACCGTGAGACTCAGAGANNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNTGTCCGNGNGNGNGNACGTGCACATGTGTGTAGGTAGATGGAGGGGGTGATT
ATTTTGGGTGGTCAGGGAAGTGCTCAGTGAGGGAAGAACTTGTCATGAGAATCTCTGAGCGTGCCAGGCAGACTC
GGATATTTTTATAAATTTTTAACATGGCCACTTGCAGAAGAGCTTGAATGGGACGTGCAGGGAGAATGGGAAGGA
TGGAGCAGGTAGCTCATCTGGCCTTGTAGGTGCCGGGAACGGGCAAGACATGTTTTGAAATGTAAGATCACAGAC
TGTTTTTTGCAAGACCACATTATATTACTTTATTATTTTCTGCTTTTTCTTTTAACGACATTAGTGTTTTTGATC
ACTATATTTTAAAATGCTTTTTGTGAGCCTTTTGGTTATGTGGAATCTGTTCCTTAGCTCTGATTTTTTATTCTT
ATGGAGCGTCTTAGGTTACTACATGAAGGTAAGACTGCCACAGTCCCCCAGGGAGGCACACTGTGTTTTACTGAT
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FIGURE 1886B

TGATTTGAAGATGATAGAGAGCCTAGGGGGATGAGTCTATTGGACTCAAAGGTTACATTTTGTTTTTCCATTTAA
TTTAATAATCAACAAAACGACAAAGTCAGTTTAATATCTTTCTTCTGCTGAGTCTTCAGGATGTTAGCTAGTCTT
TCAAAAGCCATTGCTACAAAAGTGCAAATTTCTCATTTCCTGTGGGTCTCTAGAAACTCTCTCAATATTTAAAGC
CAAACAAATCCATCTTTTCTGAGAGACAGAAACTAAAAAATTCAGAGTTAATTCACTATTAAAAACAGCAAGGCC
CTGCTATTTCCCAAGAATAAAGAAATTTAAAATTCTCATTGTAAGAAGTATGAACTTGAAGCTAGAATTGGTTTA
TTTCTGGCAGCTACTTACAATATTAAGAACTTTACTTTTTAAATTTGAGACAATTTCACAGGAAAGCAAGAAATT
AGTCTATTGTGAAATGTTTTTACAACTAACTTGGAATATACTGCAAATCACTAGTAAGTAGAGACACATTTAAGA
TAAAATGATTAATAAAACAATTGGTAATTCTGAATAAGGATCTGAATAAATCCAGATCACAGACTGTTCCTTTAC
CAATATGTAAAAGAATGTGCAAAATTCGTAAAAATATACCCAAAAATTTACCAGCAACAGAGAAGCAAAGAATGG
AGTTCAACCTTACACTATAAACATCTAATAGATATGTATGAAAATTTAAAAACTAGAAAAGGTTGGGCATGGTGG
CTCATGCTTGTGATCCCCAGGACTTTAGGAGGC

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FIGURE 1887

QLRLGTRLGVGGSVACSRRETRCRGEPSGRTFQDRNRPSAEKMSLRIDVDTNFPECVVDAGKVTLGTQQRQEMDP
RLREKQNEIILRAVCALLNSGGGIIKAEIENKGYNYERHGVGLDVPPIFRSHLDKMQKENHFLIFVKSWNTEAGV
PLATLCSNLYHRERTSTDVMDSQEALAFLKCRTQTPTNINVSNSLGPQAAQGSVQYEGNINVSAAALFDRKRLQY
LEKLNLPESTHVEFVMFSTDVSHCVKDRLPKCVSAFANTEGGYVFFGVHDETCQVIGCEKEKIDLTSLRASIDGC
IKKLPVHHFCTQRPEIKYVLNFLEVHDKGALRGYVCAIKVEKFCCAVFAKVPSSWQVKDNRVRQLPTREWTAWMM
EADPDLSRCPEMVLQLSLSSATPRSKPVCIHKNSECLKEQQKRYFPVFSDRVVYTPESLYKELFSQHKGLRDLIN
TEMRPFSQGILIFSQSWAVDLGLQEKQGVICDALLISQNNTPILYTIFSKWDAGCKGYSMIVAYSLKQKLVNKGG
YTGRLCITPLVCVLNSDRKAQSVYSSYLQIYPESYNFMTPQHMEALLQSLVIVLLGFKSFLSEELGSEVLNLLTN
KQYELLSKNLRKTRELFVHGLPGSGKTILALRIMEKIRNVFHCEPANILYICENQPLKKLVSFSKKNICQPVTRK
TFMKNNFEHIQHIIIDDAQNFRTEDGDWYGKAKFITQTARDGPGVLWIFLDYFQTYHLSCSGLPPPSDQYPREEI
NRVVRNAGPIANYLQQVMQEARQNPPPNLPPGSLVMLYEPKWAQGCPRQLRDY

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FIGURE 1888

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GTCCTGAWCACCGCACTCCTCATCGTCCTCACCTACCCTGCCTGGACCTTCATCGACTGCCTGGACTCGGCCAGC
CCCCTCTTCCCCGTGTGTGTCATAGTTGTGCCATTCTTCCTGTGTTACAATTACCCTGTTTCTGATTACTACAGC
CCAACCCGGGCGGACACCACCACCATTCTGGCTGCCGGGGCTGGAGTGACCATAGGATTCTGGATCAACCATTTC
TTCCAGCTTGTATCCAAGCCCGCTGAATCTCTCCCTGTTATTCAGAACATCCCACCACTCACCACCTACATGTTA
GTTTTGGGTCTGACCAAATTTGCAGTGGGAATTGTGTTGATCCTCTTGGTTCGTCAGCTTGTACAAAATCTCTCA
CTGCAAGTATTATACTCATGGTTCAAGGTGGTCACCAGGAACAAGGAGGCCAGGCGGAGACTGGAGATTGAAGTG
CCTTACAAGTTTGTTACCTACACATCTGTTGGCATCTGCGCTACAACCTTTGTGCCGATGCTTCACAGGTTTCTG
GGATTAMCCTGAGTCTCAAACAGTTGGAAACTAGCCCACTGGACATGAAAGCCAAGACATAGGAAAGTTATTGGT
AGGCAAATCTTGACAACTTATTTTTCTTTAACAACAACAAAAAGTCATACGGCTGTCTTGCTACTACCAGATAAA
TGATGCTGCTGTGTGAAAGGAAAAAAAAAAAAAAAAAAAAACTCXAGGGGGGGGCCGGTAACAAATTCCCC
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FIGURE 1889

VLXTALLIVLTYPAWTFIDCLDSASPLFPVCVIVVPFFLCYNYPVSDYYSPTRADTTTILAAGAGVTIGFWINHF
FQLVSKPAESLPVIQNIPPLTTYMLVLGLTKFAVGIVLILLVRQLVQNLSLQVLYSWFKVVTRNKEARRRLEIEV
PYKFVTYTSVGICATTFVPMLHRFLGLX

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FIGURE 1890

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GACCGCTGACCTAGAGGGAGTTATGCACATGGGCTTATAAGGTTAGCCAAGAGAAAGGACAAGAAGACCCAAAGT
CGGCAAGCAAATTTATTAACCTGCTGGGCTGCTCTACAGAAATCTGAGGAGGCAGACACCGGGCTTACAGGCTAA
GGGGTATAAGTAGGTCTGCAGGGGTTTTGTGTGTGTGTGCGGGGGTGTCGGGGGGGCAAGGCCATTTGTGGAGAC
TTTTCCTCCCAGTATGGCCACATCCTGCAGTTTGTCAGTTTTTGCCCCCGCCTGGCTCAGGGTACCAGGATGTGG
TTTAGCTTAGGGGTGGTTATAGTGGCACCTAAGTTCTGGGAACTTGCGGTGGGGGCGACCTTTTGGACGAAAAAT
AAGCTGCAGGGCAGCTAGGGGAGGGGGCTTGTTATATTCCTCTGGGGGCAGGGTGTCCCTAACTGGGCTCAGTCG
GAAGGAACTTGACCAAAGTCTGGGCTCAGTTGGGCATCACTCAGGCTAATGGTCGTGTGCTGGATGCCATCAGAG
GGAAGTACCAATGGTAAAGTGGAAACAATGTGCAGCTTTCAACTGGGTGGAGGCTGCTATTCTGTGGACAGTGAG
ATGTTTCCTTGGCACTGTCAATAGACAATCTGCGTAGAGAAATTCCAAGCTGAAAGCCAATAATGTTATAATAAA
ATAGAGATTCTTCAGAAGATGAAAGGAATTACCAGCATGGAAATTGTGTCATAGGCTTAAGGGCTAAAGAAGAAG
CCTTTTCTTTTCTGTTCACCCTCACCAAGAGCACAACTTAAATAGGGCATTTTATAACCTGAACACAATTTATAT
TGGACTTAATTATTATGTGTAATATGTTTATAATCCTTTAGATCTTATAAATATGTGGTATAAGGAATGCCATAT
AATGTGCCAAAAATCTGAGTGCATTTAATTTAATGCTTGCTTATAGTGCTAAAGTTAAATGATCTTAATTCTTTG
CAATTATATATGAAAAATGACTGATTTTTCTTAAAATATGTAACTTATATAAATATATCTGTTTGTACAGATTTT
AACCATAAAAACATTTTTGGAAAACCATAAA
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FIGURE 1891

TADLEGVMHMGL

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FIGURE 1892

AGCTGCAGCCACCCGCGTGCGGCACGCGCCGGCCGCCTGCCCGGATCGCGGCCACCAGTGCCGCGGCCTCTCGAC
TCCCGCCCCGCCGAGCCGCGCGCGCGACTGCCATCCTCCTCAATTGCTTTTTACGATTTTTTTTGTGCATGCATT
CATTTTCTGTTCCGTTTTGTCCTTTTTAAGGCGGTGGCGGCGGCGACAGCGGCGTAAGCTCGCAGCGGGGAGGGG
GCGGCCGGAGGATGCGGCGCGGGGCTGCGCTCGCTACGTCCGCTGCTGCTGCCCGGCTCGGGCCTGAGCGCCGAG
CAGGATCCCAAGTGATGGTGGTTTCCTCGGAGGGCGAGCTGAGTCCTGCGCGACTGGTTAGCACGGTGGAGCTGG
TAGCCACGCCTGCTGGCTGGCGTGCGTGAACAGGTGTGGACCGCAGGATCTCAGCACTCTGACCCAAGGGGAAGC
ATGTCGAAGAAAGGCCGGAGCAAGGGCGAGAAGCCCGAGATGGAGACGGACGCGGTGCAGATGGCCAACGAGGAG
CTGCGGGCCAAGCTGACCAGCATTCAGATCGAGTTCCAGCAGGAAAAAAGCAAGGTGGGCAAACTGCGCGAGCGG
CTGCAGGAGGCGAAGCTGGAGCGCGAGCAGGAGCAGCGACGGCACACGGCCTACATTTCGGAGCTCAAGGCCAAG
CTGCATGAGGAGAAGACCAAGGAGCTGCAGGCGCTGCGCGAGGGGCTCATCCGGCAGCACGAGCAGGAGGCGGCG
CGCACCGCCAAGATCAAGGAGGGCGAGCTGCAGCGGCTGCAGGCCACGCTGAACGTGCTGCGCGACGGCGCGGCC
GACAAGGTCAAGACGGCGCTGCTGACCGAGGCGCGCGAGGAGGCGCGCAGGGCCTTCGATGGAGAGCGCCTGCGG
CTGCAGCAGGAGATCCTGGAGCTCAAGGCAGCGCGCAAGCAGGCAGAGGAGGCGCTCAGTAACTGCATGCAGGCT
GACAAGACCAAGGCAGCCGACCTGCGTGCCGCCTACCAGGCGCACCAAGACGAGGTGCACCGCATCAAGCGCGAG
TGCGAGCGCGACATCCGCAGGCTGATGGATGAGATCAAAGGGAAAGACCGTGTGATTCTGGCCTTGGAGAAGGAA
CTTGGCGTGCAGGCTGGGCAGACCCAGAAGCTGCTTCTGCAGAAAGAGGCTTTGGATGAGCAGCTGGTTCAGGTC
AAGGAGGCCGAGCGGCACCACAGTAGTCCAAAGAGAGAGCTCCCGCCCGGGATCGGGGACATGGTGGAGCTCATG
GGCGTCCAGGATCAACATATGGACGAGCGAGATGTGAGGCGATTTCAACTAAAAATTGCTGAACTGAATTCAGTG
ATACGGAAGCTGGAAGACAGAAATACGCTGTTGGCAGATGAGAGGAATGAACTGCTGAAACGCTCACGAGAGACC
GAGGTTCAGCTGAAGCCCCTGGTGGAGAAGAACAAGCGGATGAACAAGAAGAATGAGGATCTGTTGCAGAGTATC
CAGAGGATGGAGGAGAAAATCAAGAACCTCACGCGGGAAAACGTGGAAATGAAAGAAAAGCTGTCAGCGCAGGCG
TCTCTGAAGCGGCATACCTCCTTGAATGACCTCAGCCTGACGAGGGATGAGCAGGAGATCGAGTTCCTGAGGCTG
CAGGTGCTGGAGCAGCAGCACGTCATTGACGACCTCTCACTGGAGAGAACGGCTGTTGCGCTCCAAAAGGCAT
CGAGGGAAAAGTCTGAAACCGCCCAAGAAGCATGTTGTGGAGACATTTTTTGGATTTGATGAGGAGTCTGTGGAC
TCAGAAACGTTGTCCGAAACATCCTACAACACAGACAGGACAGACAGGACCCCAGCCACGCCCGAAGAAGACTTG
GACGATGCCACAGCCCGAGAGGAGGCTGACCTGCGCTTCTGCCAGCTGACCCGGGAGTACCAGGCCCTGCAACGC
GCCTACGCCCTGCTCCAGGAGCAGGTGGGAGGCACGCTGGACGCTGAGAGGGAGGCCCGGACTCGGGAGCAGCTA
CAAGCTGATCTGCTGAGGTGTCAGGCCAAAATCGAAGATTTGGAGAAGTTACTGGTTGAGAAGGGACAGGATTCC
AAGTGGGTTGAAGAGAAGCAGCTGCTCATCAGAACAAACCAAGACTTGCTGGAAAAGATTTACAGACTGGAAATG
GAAGAGAACCAGCTGAAGAATGAAATGCAAGACGCCAAGGATCAGAACGAGCTGTTAGAATTCAGAGTGCTAGAA
CTCGAAGTAAGAGACTCTATCTGTTGTAAACTCTCAAACGGAGCAGACATTCTCTTTGAACCCAAACTGAAATTC
ATG**TAA**AGCTCTCAGATGTTTTCAAGCATGTGTAAAGGGGACATGTTATAGTTTCTTTCTTTCTTTCTTTCTTTT
TTTTTTTAAATCTGTATGTTCAGAATAATTTCACTGCCTTAATGTGTTCTGGAGAGCGTGCTCACCCAAGTCTAT
GGACATGTACCAGAGCTAATATATTTATTGCCTATGGCTTGTTTTGCACTTAATAAAATAATTTGTTTTTGC

FIGURE 1893

MSKKGRSKGEKPEMETDAVQMANEELRAKLTSIQIEFQQEKSKVGKLRERLQEAKLEREQEQRRHTAYISELKAK
LHEEKTKELQALREGLIRQHEQEAARTAKIKEGELQRLQATLNVLRDGAADKVKTALLTEAREEARRAFDGERLR
LQQEILELKAARKQAEEALSNCMQADKTKAADLRAAYQAHQDEVHRIKRECERDIRRLMDEIKGKDRVILALEKE
LGVQAGQTQKLLLQKEALDEQLVQVKEAERHHSSPKRELPPGIGDMVELMGVQDQHMDERDVRRFQLKIAELNSV
IRKLEDRNTLLADERNELLKRSRETEVQLKPLVEKNKRMNKKNEDLLQSIQRMEEKIKNLTRENVEMKEKLSAQA
SLKRHTSLNDLSLTRDEQEIEFLRLQVLEQQHVIDDLSLERERLLRSKRHRGKSLKPPKKHVVETFFGFDEESVD
SETLSETSYNTDRTDRTPATPEEDLDDATAREEADLRFCQLTREYQALQRAYALLQEQVGGTLDAEREARTREQL
QADLLRCQAKIEDLEKLLVEKGQDSKWVEEKQLLIRTNQDLLEKIYRLEMEENQLKNEMQDAKDQNELLEFRVLE
LEVRDSICCKLSNGADILFEPKLKFM

FIGURE 1894

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CTTCAGACTCAAGACTGCAACACCGTGCCTGCCCTCTAGCTATGCTTTAAGGCAGGCCTATCAGCCCAGACTGGA
GTCATGTAATACATGGCTCTGTCAGTAGCTCTCCTTCCCACAAATAAGTTTTGATGATCTTACACTCATCCCTGC
CGTTAGCATTCAGGACCAATCTTCTATAGCCTATACGCCACACTGGTCTAGGACAGCACCTAAATAATACTCATG
CTATAAAAAATTCATCAAGTTATATATTTTTAAAAACATCCCTAAAATTATCTTTTTCCTTTACTGAAAAGAATT
TCAGGATCCCCTCTCTCTCACTGCCTCTCTTCACACACACCTACCTTAGTTGGTCACCTATTTTGTAAACATATC
TTCTTTAAAAAAAGAAAGAAATGGCAGTACATGAAAAACTGCTTCGTAAACAGAAACTATATTATTTATATTTGT
AGCATTTTTTTCCCCTTGAGGTTAATTTCCTTTGCTTCCCATAACTGGAAGCCAATGATTCAGTGCCATTATATA
AGCTTATTTTCCCTCTTGGAAATAGTAAATTATAAGAGGTTTGACCCAAAAATATACATCAAAATTAGGCAGTAT
TCGGTGTTTAGCCTCCATCTGCCTTGTCTTCTTGTCTTTAGTTGTGCAAGTAGATGCTGATGATTTCTGGCAGAG
CTAAAGTAAGTAAATCATGTGAATTTATTTTTTTTCCTCATAAAACAGATGGCATGGTCTAGCTCTGGGCTTGTA
TGTTTCATGAAGTACATGGGTCTGAGTGCGTATTTATTTTGTGAGCCAAGGTTTATGCCTTCTTCTATAATTTTC
TTTCACCGAAAATTACCTGGAGAGCTAGAAACTCCATTTGTGTCAGCGTAAGAAGCTTTAGAATCTATATCCAGA
CCAAGGCCATGGAACAATGTAGATTCACTCAGTAAAAACTCACTAGCGGCCTTCTTTGTACTAGTCTGTCACCTT
TGCTTGGCTTTGGGAAGCTTCAAACTAGGGCAGTTTATGTTTGGGAGTGACCAGTCAAATAGCAAGACAGACATA
GGCAAGGATGTAATTTTTAAAAATTTAAGTGGGGAATGGTGAAGCATGAATCAAAACAGAAGGTAGTCTTACCTT
CTTGGAACTGTAAAATAAATACATTTGAAAAAGGCACCCTCTCAACCTTCTGCGAGTCAGAATTTTTGCTGCCAC
CCCTCATTTTGAATCTCTATTCTGCATTTTTTATTCTTTTTTTTAGGAAGGAGGAAGAAAAATTTCTCCTGAAGA
ATTCATTGGAAATTAAAATTAACTTGCGTATTTTGTATTCTTTGGAATGTGATGAAGACTGATTTGAAAGGGCAG
TGCTGGATTTGGTCAGGCATAGGAAAGGAAGACATGCAGTCGTCCTGCCTAGCTCATCCCCGCCACGATGGAGAA
GTGGGGTTGCTTTCGTTGTACTTTTTTTTCATTTGTTTCTTGCCAAGCCCAGTGGCTTCTGTTATAACATGTGGCA
GCTTCTCCCTTGGAGACTGATTCAGTCCAAGTTACCATAATATTTAGGACCAGCTACAGAGACGTTTCTTCCCCT
AAACCCATGCCAAATCTAAATCAAACTATCTTCTTCTCCTTAGCCGTTCAAATAGCTCCAGCTCTTATATAAAAA
TACGAGAAATACACAGGCCTCTTTTCGTTTTATTCCTGTTCAAACAGATAAACAAACAAGGCACATCATGCCTAG
GTTGCTTTGAGCTTGATCACTTCCTCCTAAAGCAGTCTTACGCTGTGTTGATTTAAGAATTGCAACTTAGGTGT
TCTAGAACATATTCTGAGAGCATAGTCATAGTCTGTGATCTCAGAATATGTTTGCTTCCTTCTAGAACATCTGAG
TTCTAGAAATTGCGTACAATAAACTGCTGTCAGTGCTGCTGGAGGAAGGAAGAGTAACTCTGACATCACTGGCCT
TCAACAGGTGTGGCGCTGAGCTTCTGGGCCTCAGAAGCCCTGACTTCTAGAGGCTGGGGGCCAGCGGGGCAGGGA
GGTGATCTCATCATGGATGGCCACAGATCATCCACCTGCCAAACAGTTAACCCTGAACAAGTCATGTCAATTTAT
TTTGCTTTTAAAAAAGAAAGTCTGCAAAATAGAAAAAAAAAAAAAGATTCTTCATAAATACATTTGTTCTGATCT
GTAAATACCCTGGTCATTTCCCCCTTGGCATTTGATACACATAGTATAGACATATTTTAGTCATCCTTGCTCAAG
TAATTATATTCCATAACCAACTTTATTAGCATAAATTAACTTCCTCATATTTTTAGCAAGAGTTACTTTCCTTCA
TTGCTTAGCTTATTGTTTTGAAATATGAATTACTTCAGCACAGTTCATTTTT
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FIGURE 1895

FRLKTATPCLPSSYALRQAYQPRLESCNTWLCQ

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FIGURE 1896

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AGCCGGGTCTCGCCAGTCTCGCCCGGTGTCGTCCCCGGCCGGTGGCTAGTGGGGGTACTGTGGTAGCGGAGCCGG
GCTGTGCTAGCGGGCTGGGTAGCTCGAGGCTTCCCTAGGCGGTCGTCAGGTCTGGGAGGGACGCTGGGTATGGGC
CGTATGAGCGGGGCGGGCGCGACTGCTATGAGCCCGGCCGGAGTCGCCGCCCAGGGACCTGCCACCCGGATCCCA
CCTTCCAGGAGGACGGACGTCACCCAGACGCTCGCAACTCCGGTCTCTTGACAGCGCAGCCTTCCACAGGCTCGA
ATTTTTAAGACTTGACATAAAGTCTCCGGAATTCCAGATTATTAAAGTGACCCCCTCATTTCAACCCGGCAAAAC
TTCTCACCCCAGTGTCATAAGATTCGATAGCGATCTCCCAGAAACTTGGACTGGAATGCTCCTACACTGAGGGGA
TGGGGGGAAGAAGAAATGCTAAAGATTATTTCAGAGTTACAGAAATCCTGTTGAAATTCCAATGCATCGTTTACT
CTTAGCGCTGGGGCTTCACAGTTTTTTTTTAAGTTGGAAATATTTACAAAATTTCCCATAGGGTGAAATCCAGAG
TTAATCCAAAACCAGAATCTTTTAAAATTAAGTACATTCAAATGTGCAGATTTCTTAAACCTCATTTAGTTGAGC
TTTGATAGGTGAAACGCACGTTTTGAACAACTCTGGTAACAAAGAAAAACATTAAATTGATTATAGGTATGTTAT
ATTTAAAGACCAGTTGTGAAATTAGCTATATTGTGCTCAAAGTATGTTACTGACATTTCTCCGTCGTTAAAAGGA
ACTGCTCCATTCTAGTTTTTTATAATAGTCTGTATTATGTATATAGCCTGATAGTGCTGAATTTCTGAATTGACC
TTCATCTTATTTACTCAATAATATTCATTTGACAAATACTTATTAAGTGCATATATGTGTCAGGAACTGTACTAG
ATGCTGAGGATATAGCAGTAAGCGCAACAGACCAAGCTAACAGCTTAGTAAAGGGTGAGGTAAAACAAAACAAAA
AAGTATTCAAAAAAATAAACTAATTTTTATCTTAATTTAAAAAATTACAAATTTTTAAAAATCACAAATTGGTAT
CCATGTATAATTCATTTCCGTGCATTTTCTTGTGTGAAGAAAGCTCAGTAAAAGTATTTCTTAGGTTTCTGTAAT
TCTAGTTCTCTACTCGATTTTCTTCTGCAATTTTCTGAGCCAGAACCCTTCTTAGAAGGCATATTAGAGACTTTA
AAAGTTAAATAATAAAATAAATCTCTTCTTTAAACAGC
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FIGURE 1897

MSGAGATAMSPAGVAAQGPATRIPPSRRTDVTQTLATPVS

FIGURE 1898A

GGGGGGGCTCGTGCGTTCTGCGCCCGCCGCGGCGGTGCCGAGCCCGCTGGCTCCCGATTGTCCTCTGCGGCGGTG
GCGGTCGCTGCCTCCTTGCCTCCGGGCCCGGGGCTGCAGGGGCCAGAGCGAGTGCGCCTCCTGCCCGCGGACCGC
GGCAGCCCAGAGCAGAAACGGCTTACAAAATATACAGATCTTGGTAGACAACGTGGCTGCAGGCTGTTGAATTGG
AATTCCCTGTGGCTGTCCGAAGGCAGGGTGTCCGGAGAGCGGTGGGCTGACCTGTTCCTACACCTTGCATC**ATG**C
CAGCTTTGTCAACGGGATCTGGGAGTGACACTGGTCTGTATGAGCTGTTGGCTGCTCTGCCAGCCCAGCTGCAGC
CACATGTGGATAGCCAGGAAGACCTGACCTTCCTCTGGGATATGTTTGGTGAAAAAAGCCTGCATTCATTGGTAA
AGATTCATGAAAAACTACACTACTATGAGAAGCAGAGTCCGGTGCCCATTCTCCATGGTGCGGCGGCCTTGGCCG
ATGATCTGGCCGAAGAGCTTCAGAACAAGCCATTAAACAGTGAGATCAGAGAGCTGTTGAAACTACTGTCAAAAC
CCAATGTGAAGGCTTTGCTCTCTGTACATGATACTGTGGCTCAGAAGAATTACGACCCAGTGTTGCCTCCTATGC
CTGAAGATATTGACGATGAGGAAGACTCAGTAAAAATAATCCGTCTGGTCAAAAATAGAGAACCACTGGGAGCTA
CCATTAAGAAGGATGAACAGACCGGGGCGATCATTGTGGCCAGAATCATGAGAGGAGGAGCTGCAGATAGAAGTG
GTCTTATTCATGTTGGTGATGAACTTAGGGAAGTCAACGGGATACCAGTGGAGGATAAAAGGCCTGAGGAAATAA
TACAGATTTTGGCTCAGTCTCAGGGAGCAATTACATTTAAGATTATACCCGGCAGCAAAGAGGAGACACCATCAA
AAGAAGGCAAGATGTTTATCAAAGCCCTCTTTGACTATAATCCTAATGAGGATAAGGCAATTCCATGTAAGGAAG
CTGGGCTTTCTTTCAAAAAGGGAGATATTCTTCAGATTATGAGCCAAGATGATGCAACTTGGTGGCAAGCGAAAC
ACGAAGCTGATGCCAACCCCAGGGCAGGCTTGATCCCCTCAAAGCATTTCCAGGAAAGGAGATTGGCTTTGAGAC
GACCAGAAATATTGGTTCAGCCCCTGAAAGTTTCCAACAGGAAATCATCTGGTTTTAGAAAAAGTTTTCGTCTTA
GTAGAAAAGATAAGAAAACAAATAAATCCATGTATGAATGCAAGAAGAGTGATCAGTACGACACAGCTGACGTAC
CCACATACGAAGAAGTGACACCGTATCGGCGACAAACTAATGAAAAATACAGACTCGTTGTCTTGGTTGGTCCCG
TGGGAGTAGGGCTGAATGAACTGAAACGAAAGCTGCTGATCAGTGACACCCAGCACTATGGCGTGACAGTGCCCC
ATACCACCAGAGCAAGAAGAAGCCAGGAGAGTGATGGTGTTGAATACATTTTCATTTCCAAGCATTTGTTTGAGA
CAGATGTACAAAATAACAAGTTTATTGAATATGGAGAATATAAAAACAACTACTACGGCACAAGTATAGACTCAG
TTCGGTCTGTCCTTGCTAAAAACAAAGTTTGTTTGTTGGATGTTCAGCCTCATACAGTGAAGCATTTAAGGACAC
TAGAATTTAAGCCCTATGTGATATTTATAAAGCCTCCATCAATAGAGCGTTTGAGAGAAACAAGAAAAAATGCAA
AGATTATTTCAAGCAGAGATGACCAAGGTGCTGCAAAACCCTTCACAGAAGAAGATTTTCAAGAAATGATTAAAT
CTGCACAGATAATGGAAAGTCAATATGGTCATCTTTTTGACAAAATTATAATAAATGATGACCTCACTGTGGCAT
TCAATGAGCTCAAAACAACTTTTGACAAAATTAGAGACAGAGACCCATTGGGTGCCAGTGAGCTGGTTACATTCA**T**
AACTAAGAGAAATTTCCATAATTGTCTTTTTCTATAGAGTGCATGATGAAATCAATTACAGTTTTGGTAGTAGGG
TTTTTAAATCTATATCACTGTCATAGATGTACAATCTTGGTTCAAGTTGAATGCTGGTTTTGTTTGTATCTTTTT
ACAGCCTTATTTCAAACGCCATGTGTTAGTATAAGATCCGAAATCAAAATATGCACAGTACTGTATTCTAAGCAA
AACCTCAAACCTTCTCGTTGTCTTCAATACCGCTCTATCTCCAAGATGAGGCTGAAATTTTCAGAGAGACTTAGC
TAGAGGCTTAGTATGTATGGGAGTTCAGCGCTTCTGCTGGTCTCAGGTGTGGCTGCTGCTGTCGAGTTTGAATGT
TAGCTGTTGAAGGTATCAATTCAGCAGCCATGAGCAGCTCCAGACAGACAGGTGAGCTCTGCTGTTTCTGGGTGG
ATCATCACAGATTTAGCCGGGCAGGCAGTAAGGTGTCCTCTTACTATTCAAAAAGTGTAGACTTCTTACATATT
CGCAATACGTTCACAGTGTGTGCATTTTAAAATAATTCTTAAAGGAGTAACTGAAATTTTACCTTGAGTGAATGG
CCTTCATAATATAGCTTGAGAAGTCCTTTTGAGTACCTGTCAGTGACTCAACAACATTTAATAAGGGAAAGTAGA
CTTTTAACAGTTATTATATATGTAACGAAAGCCTTTCCTTTGGGATTAATATAAGTAAGAATGGTAGCCTTGTG
GCAAGAAATGATTACAAAGGATATTTTTATTTGTAATTCCTCAGAAGACAATTTATGAAGTCACCCAAAATGTTA
TTTTAGCTGGTTTTGGATTTTTCCAATAAATTAGAAGAAGGATTTCTATTCTAAAACATGTAAAACCTGTTTTAC
ATATTACTGATACAATTAAAGATTATTTTTCATCTATGTGCAATAGATCACCCCTCTTTAAATTGCTCTAAGATT
TATTTTAGAAAACTTTTCATGTGATGTTATTTCTTTGTCATCAAAATGCTTGTTAACACTGTCCAGACACCATCC
TAACCTTGCCATTGTTAAAGAAGTTTAGGAAAGACTCTTATATTGTAAATATTTAGATGGGTTCTCTCACTTTTC
TTTGATACTACTGATTTTCAGCAAGTGAATTATATAATTCAAAATGCTAGAAATGTCTATCCGTTCTATAAGAGA
GCATATCCTGCCGTTCTTGCATGCAGTGAAGCCCTGCCCGTCGAAAATCATTGCATCTGTGACTTTCAAAGTGGA
AAAAAAAATGTTATTTTTTTGTTGATTTGTAAAGAGAGTTTAAATGTCATGTGAAAAAAAATAGAATGTAGTAAA
ATTCTATATATTTATGAAATATTTTAAAGGCATATTTTTTTAAATATCAAACGGGGCTATTCATAAAATAAACTG
ATTGTATGTCAAGATGTCCTAATTTAAAAGAGTAGTTTTATAAATCATGGTCAACATTCCATGTAAATATTTGAG
CTTTACAAAGATAGATCCAAGTGTGCGATCTGTGCACTGCACATTTGATAGCATTATTCACTGGTTTTCCTTCAT

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FIGURE 1898B

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ACTTGTCAAGTTCATATTAGAAGCAGAGACAAAAACCACTCCAATGGCCTTGACACATAGTCACACCAAAATAGA
TAATCAGACTAAGTATTATATAACAACGTGATCCAGACAGTGAGTTCTAAGTGTATTAATTAAATAGCAAAAAAT
TTTGTTTTTAAAAAATGAAAGAGGGAGGGTTGCCAACCTGAAGTCTTAAGTAGATTGTTTGGGTAGCATATTTCC
TTCTTTGAACATTGTCTGAAATTTTCTATAAATCAAGACTTCTTGTACAAAGAATGATGGGACATATGTAATAAT
TCAGGCAATCACCTGAGTAATTAGGCAGTCCAAATTCTTTACCCTGAAATACCCACATTTTAAAAAAATTGCAG
ATAATTGCTTCAGTTATTTACTTTGGGGACAGAGATATAGTGTAAAGTGGGAGAAACTGAGTCCTTTTTTGGTGG
TGGTAATAATAAGATGTTATAAAAATATAACATTTTAAAAAAGAAAGGTCCAGACCTTAAGCGCAGAGCTAGAAC
AATATTTTTTAAATAATGGGGGGAAAAGGGGGCACTTTGGTAATTTTAGAAATCAGGTAGTATACNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGTAGACGTGGTCTTAAAAACAGTGTTT
ACATGGCCATCTTGATGCTTAGAAAGATAATTGATTAAAATTAATAAGGCAGGGCCAACTCCGAGAGTTCATTG
ACAACGGCAGCAAAAAGGCCCTGAATTCTGTACTTTCTTCCCCCAGCCTCCTTCTCCAGCAAGGAGAATAGCACT
CCTCCCTCCAGAAGCCAGCTCCCTAAGTTGGAGCCACTATGTAAGAGAAGAGGAACGTTCACTTTTTAAAATTCA
TATATTTAAAAATCAAGACCAAAAAGTAAATTCTGTACTCCTATTATTGACTGTAGTCAATCAAACATAAAAAGG
TGAAAGTAAAATTTAATTTTTTACCCTTATTTTACTGACCAATATGGAAGTTCTTGGTATCTTTAAGGCTGACCT
TCCTGGTATTGTGTAATGATTGAATGTATCTAAACTGTAATAATTTGAAACTGACAAACATAACCTTCTCAGACT
TACAAAACTATGTTCTTTCTAAAGATACAGATTTTTATTATTTTATTTTGACTAGGAAGGATTTATAAATAAATG
TAATGAAAAATCTTTGATCTTAATAAAGTACCTTCAAACAGTGTGTGTACTTACTTGAAAATTGTTTTTGCACTT
GGATATTCTATTTTATTATACTACTATTGTGATCTATTCCATTATACTATTTCCCATGGTAGAACAAATTATATT
TTCTACTGTGATATGAAGTGATGTAATTGAACTTGCCATGTCTAAAATTAAATTTCATATTTTTTTC
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FIGURE 1899

MPALSTGSGSDTGLYELLAALPAQLQPHVDSQEDLTFLWDMFGEKSLHSLVKIHEKLHYYEKQSPVPILHGAAAL
ADDLAEELQNKPLNSEIRELLKLLSKPNVKALLSVHDTVAQKNYDPVLPPMPEDIDDEEDSVKIIRLVKNREPLG
ATIKKDEQTGAIIVARIMRGGAADRSGLIHVGDELREVNGIPVEDKRPEEIIQILAQSQGAITFKIIPGSKEETP
SKEGKMFIKALFDYNPNEDKAIPCKEAGLSFKKGDILQIMSQDDATWWQAKHEADANPRAGLIPSKHFQERRLAL
RRPEILVQPLKVSNRKSSGFRKSFRLSRKDKKTNKSMYECKKSDQYDTADVPTYEEVTPYRRQTNEKYRLVVLVG
PVGVGLNELKRKLLISDTQHYGVTVPHTTRARRSQESDGVEYIFISKHLFETDVQNNKFIEYGEYKNNYYGTSID
SVRSVLAKNKVCLLDVQPHTVKHLRTLEFKPYVIFIKPPSIERLRETRKNAKIISSRDDQGAAKPFTEEDFQEMI
KSAQIMESQYGHLFDKIIINDDLTVAFNELKTTFDKLETETHWVPVSWLHS

FIGURE 1900

GTCTTGGTTATTCTTGGTTCTTTATTATTCAATATAAATTTTAGAAGCTGAATTTGAAAAGATTTGGATTGGAAT
TTCATTAAATCTACAGGTCAATTTAGGGAGAGTTGATAATTTTACAGAATTGAGTCATCTGGTGTTCCAATAAGA
ATAAGAGAACAATTATTGGCTGTACAATTCTTGCCAAATAGTAGGCAAAGCAAAGCTTAGGAAGTATACTGGTGC
CATTTCAGGAACAAAGCTAGGTGCGAATATTTTTGTCTTTCTGAATCATGATGCTGTAAGTTCTAAAGTGATTTC
TCCTCTTGGCTTTGGACACATGGTGTTTAATTACCTACTGCTGACTATCCACAAACAGAAAGAGACTGGTCATGC
CCCACAGGGTTGGGGTATCCAAGATAATGGAGCGAGGCTCTCATGTGTCCTAGGTTACACACCGAAAATCCACAG
TTTATTCTGTGAAGAAAGGAGGCTATGTTTATGATACAGACTGTGATATTTTTATCATAGCCTATTCTGGTATCA
TGTGCAAAAGCTATAAATGAAAAACACAGGAACTTGGCATGTGAGTCATTGCTCCCCCTAAATGACAATTAATAA
GGAAGGAACATTGAGACAGAATAAAATGATCCCCTTCTGGGTTTAATTTAGAAAGTTCCATAATTAGGTTTAATA
GAAATAAATGTAAATTTCTATGATTAAAAATAAATTAGCACATTTAGGGATACACAAATTATAAATCATTTTCTA
AATGCTAAAAACAAGCTCAGGTTTTTTTTCAGAAGAAAGTTTTAATTTTTTTTCTTTAGTGGAAGATATCACTCTG
ACGGAAAGTTTTGATGTGAGGGGCGGATGACTATAAAGTGGGCATCTTCCCCCACAGGAAGATGTTTCCATCTGT
GGGTGAGAGGTGCCCACCGCAGCTAGGGCAGGTTACATGTGCCCTGTGTGTGGTAGGACTTGGAGAGTGATCTTT
ATCAACGTTTTTATTTAAAAGACTATCTAATAAAACACAAAACTATG**ATG**TTCACAGGAAAAAAAGAAT

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FIGURE 1901

MFTGKKE

FIGURE 1902

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TACGAACCCTGAGGGCCTACTTGGCTAGGTGCTCACGGTCTGGTAGAGGAGACAAAGATACAAAAACAGAGTCAC
AGTGTGTAATGAGTGCCATGGGAGCATAAAAACAGCATGCGCAGGGCTTGTGACACTCAACCGCCACCCCGCGCA
GCTTCCAATGGAGGCAAAGTCACAATTGACCCCAATAGACAGGCTTGACAGAGTTAGTTGGATGGGAGGCAGGTG
GGGCAGCCTGTCCAGAGGCGCAGACCTGTGTGTGTGGGGAAGGGGTGATGGGAGATGCAGACTCGGCAGTGCTTG
TTAACAGAGGTGTGAATGCCGCGCCTTGCTTGCCTGAAGATTTCCACCCAGGATCCTGACAAAAGTCAGATGTGC
ACTTCAGAAAGGCCAGGCGGGCTGCAGTGAAGAGAATGACTCGAGGGGGTGCGGGTGTGGGACAGGCCATCGAGG
CAAGGAGGCCAAATGGAAAGCTTTGGTCAGGACACAGGTGGTGATGGATTCGGGGGAGAAATGGGGGAGGGTGAC
GCAGGCAGAGTGGCCAGGTTATCAAGTGGCATCATTCACCACAAAATGCAGCCTTATGGCTGACGAGCTACCTTA
CTGAGCATATTCCTGCCTCTACACCAGAGACTCACTCTGTGGTCCGGTGTCACCTCGATTCTAAATTCCCTGCTT
CCTGGTGAATGATGCTATCACACTTTAGAAACCTGGCCAATAAATGCTTTGAAATTTAAGGATAGCTATCCTGAA
AAAATTTAATATAACCTAAATTGATAGTCTAATGACATCAGTATTCAGAAGAGGCATTCTATTTCAGCAAGTGGT
TTTCAGAAAAAAAAAAAAAAATAAGTAACCTGAGTTTTTCTCCTGCCACTCTCCCCTCTTGCTTTTATGCTGCAAAA
AGAGCTTGTGGCTTGCCTGACACACCGTGTTGTTCTCTGCCTTCGAAGATCTAGCTCCCTCAGCCTCCCCACGTT
GTCCACCTCTCCAATACCATTGCTCCACTGGGAAGCTGGCCCGGAGGTGCTCTACCACGTTCATCTCTCGCAGCC
CAGGGCTGTCTTTAACGTTACAGNGACNCAGATNTCAAAGNNTTGCAATTTATTTGGCTTTCATTAATTTGCCGG
AAGCAAGGGAGGGTAGATACAAAGTACTCCTCTACCCTGTTATTTNCCTTGGCTGTTAAAATGTAAAGAAGACTG
ATGTAAGAATCTCTGCCTTCCACCAGTCATAACCATGGTATGCACAGAGCTTATGAATCATCTTCTAAATTCACA
GCTAGTTTTAAAATTTAGCTTCCAGGCTAGATCTGCAGGAAATGATTGGGAGATCGTAAGTGCTATGGAGTGAAT
ATGAAGTTACTTACCAGATCCCATAAAGTTAGCTCAGGGAATCCTGAGGAAGGTGTCACTCAGAAAGCTGCTTTC
AAAGCTGAGTCAGACCTGCATGGTGTTTATTACCTCCATTGTGTTACCATGCCAAACATATAAATAGCTTCAAAG
TGAGTTCAGATTAAAACACAGAAAAATCTTTGGATATATTCACAGGCCAGTGGGGGTCATGTAACAAGTCAGCAA
GGAAAATAAAAGATATTTGAGGTACAGCCTCAACTTTTTAAGATGGATCTTGAATAAAAAGGTCTAATGAAATAT
TTTATGGTATTGCTCTCTGGGATTTAAAAAAACAAAGCCAAACCAAAAACGAGGCACTGGAACAATGTTTAGATA
GATCACGGGTGTTTTCCAGTATGCATTTTTTAGTGCACTTACTTAACTGAGACCCTCTCATATGAAACTGGAATG
TCACCACCATGTGATAAAGCGTAGACTAGCTGTGACCTAATACGTACTGATCATGACTAACGCAGAAGTCCAGGT
CACTGCGGTTGTATTTCCTGTGGCCTCAATGTTCTGGGGTTAGGGTTAACAGGGATAATTCATTTCTGTGTTCAA
GTCTCTAATTCTTCCATCATGTAAACTGTAAGTGGGAGCAGACTGGATTCAGCATTGCTACAAGAGAAAAACAAC
AAATAGGAACACCACCAACACCATGTGTTGGGAGCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNACTTTTCATAAATAAATGACTCGTGTTGGAGGTGTTTGTATCCTTGGGGCCACTCAGTTTTATTCAGC
CAGCTTTCCTTGGTTGTGGTTTTAATGTGTTAGGGAAGAATGAATGTATTCCCCACAGCTGGGCATCTTTGTGCT
GGATCACCTGGCCACAGCTCATGAATAGTGCAGATTATCACACCCCACCCCCATGACTCCAGCAAATGTGCTGTG
GGTATAGGAGAGTATATTCAAAAAAGGCAATTAACAAAGCAACTGTCCCAACTACCAAGAAAAACAAATGTGGCA
TAACCCATGATAGAACCCTCTTTTTTCCTTATTAGACATGAACAGAAGCTCATTAATGCCGTCCAGTAAGTTCAA
GCCGCATAACTTACATACACTGTCAGGACCCAGAAAGAAACCTGTTGTCTTGTGATGTTATTGTTGCTTGGTTGA
CCTCATCATGT
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FIGURE 1903

RTLRAYLARCSRSGRGDKDTKTESQCVMSAMGA

FIGURE 1904

GCTGGCTTTGGCTTTTTTATGTAGAAAAGGAACCTATTGAAAAGATACTGATTGGTTCCAATAACTGCTAGAAGT
TTCTGCAAAACCATGCTTTGAAAGTGAGCAGGAAAAGAAGAGACTAGGCTGTGGCTGGGAGCACAGCCAAAATTA
CAAAACCAGCCCAGGGATGATGATCCTGTTCATGCACAGCCACTGTCCCCAGCACTAGGCACAGACTCTACCACT
GCCTCACTGTCTCTGCTGGACTTGGAAACTTGATATTACTGTTACTGCTGCACTGTCTGNCATGNAAATGNGTTG
TCCAGGGTCCCTTCTTCATCCTTTCATCTCTAGCTTATAATTCAAAGTCTGGGATTGAGTGGCCAATCCTAGGTC
ACATGTCCATGTCCTATCTCCAAGGGGGGCTGGGAATTGAATATCTGGCATTTTCCACTTTCACTTCTTATGAAT
TAAGGAATTCTACAAATAATAGAAGTGGGATTCAGGTGGTAGGCAGACAAAAAAGCCTCACAATTATCCACTACG
CCACCCTTGTATAACCTTACCCTCATTCACTGTCTACTCTCAAAACTGTGGAGCTACTA**ATG**AAGATTTGTAAAC
CCTGGGCTTATGAGCACCCATTCCTTTACTACAACTCAGATTGCTCTAGAAGCTCAGTTCCCAGCACTTGGATTT
TTCCAGTAGCTGAATTCTACCTGAAGGAAGGGCAGAAACAAAGGGTGAAGAAGAGGCTATCACTTCCAAGTATCC
TGCACCCCTGGGCTCAAGACCTCACTGGGGAGGGAGTCTTTTGGGCCACCCACCAAACAGCACTGGCATTATGCC
TCTCACCC**TAG**ACCATGGTTACACGTGGTAAAACAACCCCTTCTGGTGATACATTCACAACTCTCTAGTTTCCCC
CAAATGGCACTATGGGGAGCGGGAGCTTGCCTTTTCCTCAGACTTAAAACAATAAGTTTTCCCCGTGTTTCCCCT
CTAATGCTGTTTTCTTTTGACCAAGCATGTCTGAATTCTAGAGAAGTCAGGAGGAACACACCCATTCTCGGTTTG
AAGGGACTGATGTTCTGAAGTACAACTGGGCACAGTCCCAGGCTCTTCAGGACGCTTCCTCCATTCACACAGCGG
GGATGTGATTGTTACAGCGGGTGGTGTGTGCTGGCTGAGAAGCCACTGTGAATTGATTCTTCTTCTGAAGTTTAT
GTTTCTACTTTTTGGAAATGAATAAATTACAGCCAGTCCATCAAGGAAATTGC

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FIGURE 1905

MKICKPWAYEHPFLYYNSDCSRSSVPSTWIFPVAEFYLKEGQKQRVKKRLSLPSILHPWAQDLTGEGVFWATHQT
ALALCLSP

FIGURE 1906A

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CAGATCCATGTTCACTAGCGGCCTTACAGAAAGTACTCAAAAAGAAGTTCGAATAGTTGGTGTTGAAGCTGAATC
GATGGATTTAGTGTTGAACTATGCCTACACTTCCAGAGTTATTCTTACAGAGGCCAATGTTCAAGCCTTGTTCAC
TGCAGCTAGCATCTTCCAGATTCCTTCCATCCAAGACCAATGTGCTAAGTATATGATCAGTCATTTGGACCCACA
GAATTCTATTGGGGTCTTTATCTTTGCTGATCATTATGGTCATCAGGAACTCGGAGATCGATCAAAAGAATACAT
TCGTAAAAAGTTTCTGTGTGTCACCAAAGAACAAGAGTTTCTCCAGTTGACAAAAGACCAACTGATAAGTATACT
AGACAGTGACGATTTAAATGTAGACCGAGAAGAGCATGTTTATGAAAGCATTATAAGGTGGTTTGAGCATGAACA
GAATGAAAGAGAAGTGCACCTTCCAGAAATTTTTGCTAAATGCATACGTTTTCCTCTGATGGAAGATACCTTTAT
AGAGAAAATTCCACCTCAGTTTGCACAGGCTATAGCCAAAAGCTGTGTAGAAAAGGGACCATCCAACACCAATGG
CTGTACACAGAGGCTTGGAATGACTGCTTCTGAAATGATCATATGTTTTGATGCTGCCCACAAACACTCAGGAAA
GAAGCAAACAGTGCCTTGTCTAGATATAGTCACAGGAAGGGTGTTTAAACTATGCAAACCACCAAATGACCTGAG
AGAAGTTGGGATTCTTGTATCACCAGATAATGACATTTACATTGCAGGAGGGTACAGGCCAAGCAGCAGTGAGGT
CTCCATCGACCATAAGGCAGAAAATGATTTCTGGATGTATGATCATTCCACCAATAGATGGCTATCCAAACCATC
CTTGCTTCGAGCCAGAATAGGCTGCAAACTTGTCTATTGCTGTGGTAAAATGTATGCAATCGGAGGTCGTGTTTA
TGAAGGTGATGGGAGAAACTCACTAAAATCTGTTGAGTGCTACGACAGTAGAGAGAATTGTTGGACGACTGTTTG
CGCGATGCCAGTTGCAATGGAATTTCATAATGCTGTGGAGTACAAAGAGAAGATCTATGTTTTACAGGGAGAATT
TTTTCTCTTCTATGAGCCTCAAAAAGACTACTGGGGTTTCTTAACCCCCATGACTGTGCCTAGAATCCAGGGCTT
AGCAGCTGTATACAAGGACTCTATCTACTACATAGCTGGAACCTGTGGAAATCATCAACGTATGTTTACTGTAGA
AGCCTATGATATTGAGCTAAATAAATGGACTCGTAAGAAAGACTTTCCATGTGATCAGTCCATAAATCCATACCT
TAAACTGGTACTTTTCCAGAACAAACTCCATTTATTTGTTCGAGCTACTCAAGTGACTGTTGAAGAACACGTCTT
CAGAACCAGCAGAAAAAATTCCCTTTACCAATATGATGACATTGCTGACCAGTGGATGAAAGTGTATGAGACCCC
AGATCGGCTCTGGGACCTTGGCCGGCATTTTGAATGTGCTGTTGCTAAACTGTATCCTCAGTGTCTTCAGAAAGT
ACTCTAAATGAGTAGCAGGCCTTAGTGCATCACTGGCATCTCATTCTTAGGAAACTTGTCTTTGATACAAAAGAG
TGCTGACAGTATTTCAGAAAGCTGAGAGAGTTTTATACATGGAAAATGGGTATGCTTAAAGATTGCAGGGTAGGG
AGGGATTTTCCTTCATCCTTGTGACATTTCATTTCAGTAAGGAAAAGATAACAAAGTGCAATTATCAGCATTTTT
TTTTCCTGGCATAAAATTAATCATTTCATTTTATAATTTTGTGATAAATAGTAACTGAGGTACCAGATGAATCAG
GACAACTATGCACTCTTATAAGAGCATTTAGGGTATTATTGGGTAAAGACGTCTAAACTTGTTTGATGTGACTTT
TAATTTTAAATACGGGTAACAATCTGAGGCAATATCACTAGGACTTTAGCTGTGACCTCTCTAACACAGAGAAGC
ACTAACTTAGATCCTCATTCTTAATATTTATATGTATCTATTTTTGTGTACTGTTTTCAAGTGTACTGAGATTTA
AATGTGTTCTATTATTAGAGTAGATCGAAGAAAAAATTAGTCTCAGAAAGAGCTTTTAGTCTGATTGTTTCCATT
TCCCATGTAATTTTAAGTTAAGCTAAAGTTTTAAAGTGGCAGTTTTCTGTCGATGACTTTTTCAAGTGCTAACAC
TGTCTCTTTTGTGAAAATCTGGAAAAGTGCTCATATTCACAGGTGGCTGGTGCTAGTCTAACTTAATTCATGTGT
ATAACTAGATGGATTTAAATGGTCTGAGCCTATGCCTATCTTTCAAATTGGTGTGGATTTCATGGCCATAGTACT
TTACCTGTTGAACTCTTGTGATTTCACAAGATTCTCTACTTATGTGATAGGAGGGTATGGCCAGTTATTCATCTA
ACTGGACTCAATCTTAGAATAGTAGGAACATTATACCCAGTTTGCACTAACATGGGCCATTTGTAGCCCAACCTT
CTCTTCCATCTACCTGTCCATTCATTATTGGTACAAGGAAAGGTAACTTATTTCTCTTCTGCACAGAGCATAATG
TGAAGTTTTATACCTACTTTTAAAATTCTGCTTTCCAGAAACAAAATTCCTGCAGTGGTCTAATTTAATGTCTTT
AAGTTTCATATTACAATTAAAACCTCATTTTTTTTTTCCATTTTTGCACTTAACAGTGATGAATACTTTTACGTT
GGAATCCTCCTTCTAGCTGAAGGTGATTGAAAAGGAAAAGAGTGAGTGAACAGAACCATAGCTTTCTAGGTACTA
AAGCATTTTTTGCATTTAACTGATGAAATTTCTAACAATCATCAGTTAGGAATATTAACATGAAGGATAAACCAA
CTTATTTGTATACCTAAGGCAGGCATTTGGATCAGTAACATGTTTTACTAAGCCTAGAGTAATTCGTAAAGGGTA
TAAGCATAGGACAGATTTTGCCCTCAATCACAATATTTGTATTCACTTGAAAGCAAACTGGCATGGTTCGTATTT
TAAAAATCTTGCACAAATTGTAATGTGATACTGTGAAACAAATTGAAAACATTGCCTCTTTGCATCACATACCTC
GTTTTTCAGAAACTTTCCAAACTGCTTTACATAGACCTCTACAAGTAGGGAATGTTTTCTGAAGCAGAAGTTAAA
ATGGACAGCATTTCTAGAATTAACATTTTAAAAATCTAGTCTTAGCTAGATATGTGGTTTCTTCTTATTGGTGTTG
ATAGTATGTCTGTAATCTCTGTATAAACTTTGTCAACATTTTTACCTCCCCAGTTTATCTTCTGTTTTGTTTTT
GTTTTTATCATCATGATGTTTTGGAGTTATTACTGTGTATTTAGAAATCATTCTTTACAGTTTTGCATTGCTGA
GGAGAGAGAAAAAACAATTTTTTTGCAAGAGATGTTCATGTAATTTATTTTTGAAAGCTTTGTTGAATAAGATTT
CCTGCCGCTTTTTGACAATCTTGTGTATTTAGAAAAATGTATTACTTGAAAACATGACATAGAACATTGAGTTAG
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FIGURE 1906B

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CAATTTACATGGGCTGTATGTTATATAAGAGAATGACATACTGTGGCTAATTCAACAGTAGATTTATTCTTTTAG
CCTGCACAACAGTTGATCTTTTGGCTATGACAATTTGTATGGAGGGTACGATCTAAGTTAAGTGTGTCAAAAGCA
AGGCTTAGGATTTGTTATGGGAGTAGAATATATATTGAATTTTGTATGAAGAACTATTTGTTTAAATTATATAGC
TGGGATATTTTCCCACTGTTAAAATGGATTCAGAAGAGGTCCTAGAAAAGTAAGATTAGTGACATGTGTGGGTTT
ATATTTAGATATTTAAGGTGCATTTTCATAGTGTGGTAAGACCTTAAGTAAAAGGCACAATGGGTACTACAGAAT
TAAAATGTAGGTCTAACATAATGCCAGTTCCACTTTAACTTTGTTTTTGCATTTGAAGAATGTATGTAGCACTTT
CCTATATATTTGTCACACATTGAAAACTGGACTGGGTATAACTATGTTATAGGAAAGTAGAAATTGTATTCTTTA
TTTTCCATCTTTGTTTTCTGTTCTACAAAGTTGATGCTTAAGCATCAAGCTGATTTTATTGGTCATGAGAACAAA
TGGATGTGATCATGAAGGAATCAGATTCCCTATGTAAAGCAGTTTAAAATGGAATTCAATGTTCAGTGCTCAGGT
ATGTAGTAAGTACTGTAGTCCTGTGGGGGCAAATGTGTAGATATTTTTAAACATTTTGCCATAATTGCACAATTT
TTTGCATTTTTACCTGATGTCATTGTTTCTTATAATAAAACCTTTTCTGATTG
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FIGURE 1907

CCGGGGCGGCGGTTGCATCAGATTCTAGGAAGTGTCTGTAGCCGCAGCTGCGGGTCCGGGATTCCCAGCC**ATG**GC
AGATTCCTCCGGGCAGCAGGGCAAAGGCCGGCGTGTGCAGCCCCAGTGGTCCCCTCCTGCTGGGACCCAGCCATG
CAGACTCCACCTTTACAACAGCCTCACCAGGAACAAGGAAGTGTTCATACCTCAAGATGGGAAAAAGGTGACGTG
GTATTGCTGTGGGCCAACCGTCTATGACGCATCTCACATGGGGCACGCCAGGTCCTACATCTCTTTTGATATCTT
GAGAAGAGTGTTGAAGGATTACTTCAAATTTGATGTCTTTTATTGCATGAACATTACGGATATTGATGACAAGAT
CATCAAGAGGGCCCGGCAGAACCACCTGTTCGAGCAGTATCGGGAGAAGAGGCCTGAAGCGGCACAGCTCTTGGA
GGATGTTCAGGCCGCCCTGAAGCCATTTTCAGTAAAATTAAATGAGACCACGGATCCCGATAAAAAGCAGATGCT
CGAACGGATTCAGCACGCAGTGCAGCTTGCCACAGAGCCACTTGAGAAAGCTGTGCAGTCCAGACTCACGGGAGA
GGAAGTCAACAGCTGTGTGGAGGTGTTGCTGGAAGAAGCCAAGGATTTGCTCTCTGACTGGCTGGATTCTACACT
TGGCTGTGATGTCACTGACAATTCCATCTTCTCCAAGCTGCCCAAGTTCTGGGAGGGGGACTTCCACAGAGACAT
GGAAGCTCTGAATGTTCTCCCTCCAGATGTCTTAACCCGGGTTAGTGAGTATGTGCCAGAAATTGTGAACTTTGT
CCAGAAGATTGTGGACAACGGTTACGGCTATGTCTCCAATGGGTCTGTCTACTTTGATACAGCGAAGTTTGCTTC
TAGCGAGAAGCACTCCTATGGGAAGCTGGTGCCTGAGGCCGTTGGAGATCAGAAAGCCCTTCAAGAAGGGGAAGG
TGACCTGAGCATCTCTGCAGACCGCCTGAGTGAGAAGCGCTCTCCCAACGACTTTGCCTTATGGAAGGCCTCTAA
GCCCGGAGAACCGTCCTGGCCGTGCCCTTGGGGAAAGGGTCGTCCGGGCTGGCATATCGAGTGCTCGGCCATGGC
AGGCACCCTCCTAGGGGCTTCGATGGACATTCACGGAGGTGGGTTCGACCTCCGGTTCCCCCACCATGACAATGA
GCTGGCACAGTCGGAGGCCTACTTTGAAAACGACTGCTGGGTCAGGTACTTCCTGCACACAGGCCACCTGACCAT
TGCAGGCTGCAAAATGTCAAAGTCACTAAAAAACTTCATCACCATTAAAGATGCCTTGAAAAAGCACTCAGCACG
GCAGTTGCGGCTGGCCTTCCTCATGCACTCGTGGAAGGACACCCTGGACTACTCCAGCAACACCATGGAGTCAGC
GCTTCAATATGAGAAGTTCTTGAATGAGTTTTTTCTTAAATGTGAAAGATATCCTTCGCGCTCCTGTTGACATCAC
TGGTCAGTTTGAGAAGTGGGGAGAAGAAGAAGCAGAACTGAATAAGAACTTTTATGACAAGAAGACAGCAATTCA
CAAAGCCCTCTGTGACAATGTTGACACCCGCACCGTCATGGAAGAGATGCGGGCCTTGGTCAGTCAGTGCAACCT
CTATATGGCAGCCCGGAAAGCCGTGAGGAAGAGGCCCAACCAGGCTCTGCTGGAGAACATCGCCCTGTACCTCAC
CCATATGCTGAAGATCTTTGGGGCCGTAGAAGAGGACAGCTCCCTGGGATTCCCGGTCGGAGGGCCTGGAACCAG
CCTCAGTCTCGAGGCCACAGTCATGCCCTACCTTCAGGTGTTATCAGAATTCCGAGAAGGAGTGCGGAAGATTGC
CCGAGAGCAAAAAGTCCCTGAGATTCTGCAGCTCAGCGATGCCCTGCGGGACAACATCCTGCCTGAGCTTGGGGT
GCGGTTTGAAGACCACGAAGGACTGCCCACAGTGGTGAAACTGGTAGACAGAAACACCTTATTAAAAGAGAGAGA
AGAAAAGAGACGGGTTGAAGAGGAGAAGAGGAAGAAGAAAGAGGAGGCGGCCCGGAGGAAACAGGAACAAGAAGC
AGCAAAGCTGGCCAAGATGAAGATTCCCCCCAGTGAGATGTTCTTGTCAGAAACCGACAAATACTCCAAGTTTGA
TGAAAATGGTCTGCCCACACATGACATGGAGGGCAAAGAGCTCAGCAAAGGGCAAGCCAAGAAGCTGAAGAAGCT
CTTCGAGGCTCAGGAGAAGCTCTACAAGGAATATCTGCAGATGGCCCAGAATGGAAGCTTCCAG**TGA**GGGGGCAC
AGGACTGACTTTTTAAACCATTGTGGACTAGTGGCTGCTGTCTGCCTCAGTGACAATGTCCCAGCGCTCCTATCA
TGTTTACAGTCACCCTTGGGTCCTAAATTAAGAGTTGTGTTCATGTAGGTTCGTGTCGTCGTTGGCTCTGAGACA
TTGATAATAAATTTTTCTCAACAGTGAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1908

MADSSGQQGKGRRVQPQWSPPAGTQPCRLHLYNSLTRNKEVFIPQDGKKVTWYCCGPTVYDASHMGHARSYISFD
ILRRVLKDYFKFDVFYCMNITDIDDKIIKRARQNHLFEQYREKRPEAAQLLEDVQAALKPFSVKLNETTDPDKKQ
MLERIQHAVQLATEPLEKAVQSRLTGEEVNSCVEVLLEEAKDLLSDWLDSTLGCDVTDNSIFSKLPKFWEGDFHR
DMEALNVLPPDVLTRVSEYVPEIVNFVQKIVDNGYGYVSNGSVYFDTAKFASSEKHSYGKLVPEAVGDQKALQEG
EGDLSISADRLSEKRSPNDFALWKASKPGEPSWPCPWGKGRPGWHIECSAMAGTLLGASMDIHGGGFDLRFPHHD
NELAQSEAYFENDCWVRYFLHTGHLTIAGCKMSKSLKNFITIKDALKKHSARQLRLAFLMHSWKDTLDYSSNTME
SALQYEKFLNEFFLNVKDILRAPVDITGQFEKWGEEEAELNKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQC
NLYMAARKAVRKRPNQALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSLEATVMPYLQVLSEFREGVRK
IAREQKVPEILQLSDALRDNILPELGVRFEDHEGLPTVVKLVDRNTLLKEREEKRRVEEEKRKKKEEAARRKQEQ
EAAKLAKMKIPPSEMFLSETDKYSKFDENGLPTHDMEGKELSKGQAKKLKKLFEAQEKLYKEYLQMAQNGSFQ

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FIGURE 1909

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CAAATCCAGTCTCTAGCAGTTATGTTGTTAGAATGGATTCATCTGTGCTTATTTCACAATACTTCATTTATAGCA
ATGCTTTTCCTTAAGCTAATGTATAAATATTTCTAAAGGCCATTAATAGTAACAAAATAAGTAGGGGAAAAAATG
GACCTTCTGTATAAAAACCCCTTAGCTTTTTTTTTTCACAAGTTATAAGTGGAATAAGTTAATAACTGAGCTCGT
AAGTGTATCTCATAACTATAAGAGCTACATGAAGAAAATAGGAATAACACACCTGGTATTTAAACACAATCTTCA
AAATTCTTGCAACATTAAACATAGTAAAATGCCAGAATATAAAATGAGGTGTGCTAATGGTCACAGGATTGAGGC
CAGCATTACAGTTTGGGGTGATTTTTCTTTTATTTGCTCCCTCACTTTGTTTCCTAGATGCTAGTAGGGGTATCT
GGGTTGCTTGAGATACCATTTTGCAATTGCCCCTTCTCTTTCTGCCTACCATCTTCTCAGGCCCTGATGAGCTTA
TTGGTAGGCAACTGGGCTGCTTTAATGTTGAACTTGTACTTCTTTAGAAACTGAAGTGGAATCATTGAAAACTTT
CAATAAAGCTTTAAAGTTCCATTTACTTTTGAAGCACAGCTAAGCTCCTCTGAAGGCAGCTGGTTTGTTGCAAAC
TTAAAATTGTACTGAAAAGTTGCCACTTTTTATTTAGTAAGAAAACAAACATTCTGGCTCACTAGAGTTCAGAAA
AGTAATAATTTGAGCCAAAGGAATTTGAATTAAGAAAATAGAAACTAGGTTTCATGTATTTAAAAAAATAGGAAAT
AAAATAGAAACTCAAATGCCATGAAGTTATCTTCCTCTTCCTTATATCCCCTAAGTTTGGGGATATAAGGAAGAG
GAAGATAACTTTCCAATTCCTAATAACCTAAATTATTTTGAAATAGTGTTTTCAGTGAAATGATGAATGTTTGAA
TGTTTGTTTGGTAATCAACATAACAATGCTAACAAAATTCCCACTTAGATTTTTTAACTTTTAAAAGTCAGCGTG
GTTTTGATAATTTGATATTTTAAATGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGTTAATAAAC
TGATAGGATGGAGTGAGCAAAATTGTTTTCAGGGAAGATGGCACATTTTAGAAAAGACTTGCCCAGATGATCTTC
CATATTGCTCCCCCAATGTCATTTATCGCTCATGCCAATCCTCCTCTTGTTACCTGTGGCTATGGTAAAATTCCT
TTAACAAGCTTCATTGTGTCCAAGTATTTCAGAGACTTTTAAAAGCTGGGCATGACATAGCGTTTTGTGCTGTTA
AGACCTTAGCAGAGTCAGGTAGTTTACGGGTAATATTCAACCTTGTGCATCTGAATCTGTCATGGATTCCCTTCA
CTCAGCACTTTGCCACTAATTTGTATTACACTCTGTGGCCATATAATACTTGCACATTATGCAAAAAAAAAATGTT
GATAGTATCTCCTTGCCACACAATATGCAGAGTTGACAACCTTTGAAAACCAAGGTAACTAATATGTATGTCCTA
GTTGTGTGGCGCTTGGTAACAAAGTCTGTACATATTATGTATAAAATGTGTATTGGTTAGCATTTAGTACTAAGA
AATTCTGAGTTTAAAATAAGTGATTTTTTTCAAAGTAGCGATATCTATATCTGTGTTTATCTAAAAATACTGGCT
TGAATAGAAAACATTCTCAGATGATTCAAGATTGAGTAAAAATGAGAATCCCATACATTCCATTATTAAATTCTG
CCCTATTCCCAATTGTTAGCATCTGGCTGATATTAAGGTCTTTGATTGTCACAATATTCTCAATAAATGAGACAT
TCTGAACTGCCTGGTGATATTTTCAAAAAGAGCAATTAAAATGTGTATTCCCTCTAATACAGCTGATAGAACTGT
TGTGTTAAAGCAAGTTGGAAATTTGCATGATAGTGTGGAAACCAATGGAGGTCCAAAATATTAATCATATCTAAA
ATATCAGAAAATATCAATACTAGTCTTCTTTATGCATATTTTTGACTTTTTAAGAGGGCTTATGAATTCAATGTT
TCTTCTGAGGCAATCCTTTTAATGTAAATACTAAATACTTGCATGTCTTTTGACAAAGGCTAAACTACAATCTAT
TAATATGCACATTTTTGATAAAATATAAAGTACCCTAATTAAAGAAATTGTGGTAGAAGGTGTATGTCCTGAATA
CTATACCTGTTTAACAATACCAAATGTTAAATAAAAATAGTTTGAAATTAATGTTTAAAA
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FIGURE 1910

QIQSLAVMLLEWIHLCLFHNTSFIAMLFLKLMYKYF

FIGURE 1911

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CTAAAAGCTGCTGTACAAGCCTTTAAAGAAGCAAGACAAAATGTTGCTGAAGTTGAGTCATCAAAGAATGCTTCA
GAGGACAATCATTCTGAGAATACTTTGTATTCAAATGATAATGGAAGTAATTTACAGCGTGAAGCAACTGTCATC
AGTGAGCAAAAAGTCAAAGAAACCAAAATATTGGCGAAGAAACCAATACATAATTCAAAGGAAAAAATAGCAAAG
ATGGAACATGGACCTAAAGCAGTGACTATTGCAAATTCTCCATCAAAGCCTTCAGAAAAGGATTCTGTAGTTTCC
CTTGAGTCCCAGAAGACACCTGCTGACCCAAAACTGAAAACTCTAAGTCAAACCAAAAAAAACAAAGGATCTGAT
AGCTCACTCTCTGGTAACAGTGATGGCGGAGAAGAATTTTGTGAAGAGGAGAAGGAATATTTTGATGATAGCACA
GAAGAAAGGTTTTACAAGCAGTCTTCCATGTCTGAAGATAGTGATAGCGGTGACGACTTCTTCATTGGGAAAGTC
AGACGGACACGAAAGAAGGAAAGTAGTTGTCATTCTTCAGTTAAGGAACAAAAACCACTAGAAAAGTGTTTCTT
AAAGAAGATACAGGTGAAACTCATGGGGATACAAGAAATGACAAAATCAAGCCAAGTACAGAAACCAGAAAGTTA
GAATCAGTGTTTTTCCACTCTTTATCTGGATCTAAAAGCTCTAGAAGAAATTTCAAAGAACAGGCTCCAAAAACA
AGATCCCTAGATTTTCCACAGAATGAGCCTCAGATCAAGAATCAGTTTAATAAGAAGCTATCAGGAAGACTTGAA
AATACAAAACAGCAATTGCAGCTGCCTCTTCATCCTTCATGGGAAGCAAGCAGAAGGCGAAAAGAACAGCAATCT
AATATTGCTGTGTTTCAGGGGAAAAAAATTACGTTTGATGATTGATTAGTGCCTCTTTCTGCAAACTTTTCCATC
TAAAAAAAAAAATGTTTTTTTTTGGGACAGGATCTCATTCTGTTGCCCAGACTAGAGTACAATATTGCAATCACAG
CTCACTGCAGCCTCAAACTCCTGGGCTCAAGTGATCCTCCCACCTCTGCCTCCCAAAGGGCTGGGACTGCAGGTG
CATGCACTACCATGCCCAGCTTTCTCACCCCAGGCTCTGCAGCTATTACTTAAACTCGTATTTGAATAAGTCTCT
TGGGGAGAATTATAGAATGTTTGTTTTTGTATTTTTTTTTAAAGTAAATTCAACTTACGCTTATATAAGCCTTTC
ACAAATCCAATATGTACTTAAATTGATTTTTAATAATATCCCTCAGACTGTTTCCCTTATGAAGTAATTTGGGGA
TTTTAGTGATCTCATATTTTCTCTTTAGTGCTTATCATGAAATGTGCTTCACTGGTTCAGCTCTGTTGTTTCCTT
AAACATAAATGTCAATATATATTTAAAATAATAATGGAAACATAGGAAATCAGCTATTTAAACCAGATCACCCTT
GTTAAAAATCATTCTTGTTAGCAAACTAAAATAGTAACTTTTATTATGGATGTACAGATAAATATTAATTTTATT
ATAGTTTTAAGTACTTGTGATCATGTACTTTTTGATTCTAAAATAGTTGTCTAGGACAATTTTGGGATTCTTAAT
TATATTTTAGTTAAGAAAATTGTTTAAATATAGCAATACAACCAATAATTTGTTTTATGTTTCACTGCATATAAA
TATTTCCATTAAATCAAGAATGTATATTATCTAGTTTTTACTATACTTATTTTAAAATTTTTGAGGAATCATAGA
TTCTAATTTTTAAGAACAAATTCTGAAGGTGGTAGGATTAAAAGAATATTTCCACTGATGGCTAAGCAAAGAAGT
TGTAAGATGACTCACTGAGGAAGGGACTGCTTTATACATCACAGTACTGCTATTTAAAAGGAAAACAGAAATTTT
TAAATCCCTTCAAATGTTTCACTTTTGCTATGCTGGGAAAAATTTTGAAGTTCTTGGTAAACTGAATAATGCTAA
TCCATGTTTCCTGCACATTAGTTCCTTTAATGGCAGGGAAGGCCATCTGGTTAACCTGTATTCACAAACTCTCAA
GAGTTTCTACTTATTTCAGGAGCTTAAGAATTTAGATAACTCAGCCGGGCGTGGTGACTCATGCCTATAATCCCA
GCACTTTGGGAGGCTGAGGCGGGTAGATCGCTAGAGGCAAGGAGTTCAAAACCAGCCTGGGCAACATGGTGAAAC
CCTGTCTCTACTAAAAATACAGAAAATTATCCAGGCGTGGTGGCCGGCATCTGTAATTCCAGCTACTCAGAAGGC
TGAGGCATAAGAATTGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATTGCACCACTGCACTCCAGCCT
GGGTGACAGAGTATGACTGTCTCAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1912

CTGCGCCTGGCGTCACCGACCGGTGCGGACAGGAAGAGGCTCTGGGCTGGCACATGTGTATGGCGGTGAGGCGGG
CGGGTAC**ATG**GCGGGCTCTGTGGGACTGGCGTTGTGCGGGCAGACGTTGGTGGTGCGGGGCGGCAGCCGATTCCT
GGCCACCTCCATAGCAAGCAGTGATGATGACAGCCTCTTCATCTATGACTGCAGTGCTGCAGAAAAGAAGTCACA
AGAAAATAAAGGGGGAGGACGCGCCCTTGGACCAGGGGGAGCGGTGCGATTCTGGCGTCCACCTTCTCCAAGTCTGG
CAGCTATTTTGCTTTAACCGATGACAGTAAGCGTCTGATTCTTTTCCGTACAAAACCATGGCAATGTCTGAGTGT
CAGGACCGTGGCAAGGAGGTGTACAGCCCTGACTTTCATAGCCTCGGAGGAGAAGGTCTTGGTGGCCGACAAGTC
TGGAGACGTCTACTCCTTTTCGGTGCTGGAGCCACACGGGTGTGGCCGTCTAGAGCTGGGGCACCTGTCTATGCT
GTTAGATGTGGCTGTGAGTCCTGATGACCGCTTCATCCTCACTGCCGACCGGGACGAGAAGATCCGAGTCAGCTG
GGCCGCGGCGCCCCATAGCATCGAGTCCTTCTGCTTGGGGCACACAGAGTTTGTGAGCCGTATCTCCGTGGTGCC
AACTCAGCCCGGGCTGCTTCTGTCCTCCTCTGGGGACGGCACCCTGAGGCTCTGGGAGTACAGGAGCGGCCGCCA
GCTGCACTGCTGTCACCTGGCCAGTCTGCAGGAGCTGGTGGACCCCCAGGCCCCCCAGAAGTTTGCCGCGTCCAG
GATTGCATTCTGGTGCCAGGAGAACTGCGTGGCGCTCCTGTGCGACGGCACTCCTGTGGTCTACATCTTCCAGCT
GGACGCCCGCAGACAGCAGTTGGTGTACAGGCAGCAGCTGGCGTTCCAGCACCAAGTGTGGGACGTGGCTTTCGA
GGAGACCCAGGGGGCTGTGGGTGCTCCAGGACTGCCAGGAAGCCCCCCTGGTGCTCTACAGGCCTGTGGGCGACCA
GTGGCAGTCTGTTCCTGAGAGCACCGTGTTAAAGAAAGTCTCTGGTGTTCTTCGTGGGAACTGGGCCATGCTGGA
AGGCTCTGCCGGCGCAGACGCCAGCTTCAGCAGTCTCTACAAGGCCACGTTCGACAACGTGACCTCCTACCTGAA
GAAGAAAGAGGAGAGACTGCAGCAGCAGCTAGAGAAGAAGCAGCGGCGCCGGAGTCCCCCGCCTGGGCCCGACGG
GCATGCCAAGAAGATGAGACCGGGGGAGGCGACGCTAAGTTGC**TGA**TCGTGGCGGTCTGTTTCTGTCGACTGTGG
ACCACTTATGTGCGATCCGTGGACCACTTGCGTGCGATCGTCGGCCGACGATGAGCTTGTTCGGATGTAGCTCC
ATCGTAAGTCGAGGAGCATCTGTGATTTGTCCTCTGCTTATGGGATATGTTTTTCCGCTACTGAGTCTGTGTAGT
AAATTTTTGACTAGGAA

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FIGURE 1913

MAGSVGLALCGQTLVVRGGSRFLATSIASSDDDSLFIYDCSAAEKKSQENKGEDAPLDQGSGAILASTFSKSGSY
FALTDDSKRLILFRTKPWQCLSVRTVARRCTALTFIASEEKVLVADKSGDVYSFSVLEPHGCGRLELGHLSMLLD
VAVSPDDRFILTADRDEKIRVSWAAAPHSIESFCLGHTEFVSRISVVPTQPGLLLSSSGDGTLRLWEYRSGRQLH
CCHLASLQELVDPQAPQKFAASRIAFWCQENCVALLCDGTPVVYIFQLDARRQQLVYRQQLAFQHQVWDVAFEET
QGLWVLQDCQEAPLVLYRPVGDQWQSVPESTVLKKVSGVLRGNWAMLEGSAGADASFSSLYKATFDNVTSYLKKK
EERLQQQLEKKQRRRSPPPGPDGHAKKMRPGEATLSC

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FIGURE 1914

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TGCCTGGCCTGACATTTTTANAAAAAGTTTTATTTTGCACGGCTCTAAACCTCCATGTTATTTTCCAGTGGTGTA
GAAGGTACCAGCTAAAGTGAACCACTATGTAATATTAGGCCATTCTAAAGGAAAGATGTTCCATGTCATCAGAGA
TGGTAAAATAGGCAGGGAAAAAAAAAATCTTTGGTACCAAAGATTACACTTGTGTTTCTACACAGCAAACCATTTT
TCTTTCATGAAAATAATATATTATTAACATGAATATATTATTTTGCTATTAATGTGAAAGTTGTCTCTAAATATT
TTTTAATTTTCAAACTCATACTTTATTTTCATTTGAAATGTTTTTCACACCTTTTGCATTACATAATAATTTTGT
GGAAGCATTTTGCCCTTTAGAATAAATATTAGATTGATATAGCTGAAATGTGACTTCCAGTTCTTTGATATTCCC
CTTGTTATTCAAATAGAAATATGGAAATGCTTTATATATTACTGTTAAATTTCTTAGTGCAGAAATAACATTATT
AATAGAGTATTGTTTTCAAAACAGATGATTAATTTCAAGAGGTTTAACAGTGAAATTGTGTCAATATTTTGCATT
TAAAATGAATTTAATTGACCGATATTTTCTGTAGTTAAATTTAGTCACAATATCACATATGTTCTTCAAGAAACA
CATGAAATTATTAATAAAGTAATTAAAAAATTTTTAATGTATAACAGAATTGACCAATAGGCCAGTTTTCTGGTA
ACTTATGATAGTAGATTGTTTCTTTAGAAACTGGGCAGAAGCTCTGCATTCTCACTTGTACTTTGATTTCTTATT
TCTTGGTCAGGCAATTTGAGGAAAGAAGAAATGGCATGGGGAATATATATGTTTTGTTTCTTAGGGAAAACAGTC
TGAGAAATGAATAAAAAGCATGAANNNNNNNNNNNNNNNNNNNNNNNNNTACCATGGAAAAGGATATTCACAGTAGTA
CAGTTCTCAATATTTTTAATTAGATGTCATATTTTTTTAATATAGTAAAACCTTGGGATATAGAATATTACATCT
TTTGAGAATGTATGTGTCTCTAAGTAAGTAAAATCTAATGCGTATAGGAGACTGATAGCTAAAAATGAATGGAAC
ATTAATGTACTTTTATAATTAAACCTCTTATCTATCAGAAATTGTAAGAGAATAGATACATGTTTTGAATGTAAA
GTTGAAAAGTCTGGTTTACTGAATAAATTGAAAGTGATTTATAAAATCTAAATTTGGACTACTTGCAAATGATAA
GCTATTCTAGTAGCCTTTAGTTTAAATCCAACAGAAATCTAGAAGTCACAAGCAAATATCTTAAAGGTAAAATCC
ATCTGGGCACTCATTTAAAGTATATCTTAAAAAAGCAGCAGCAAGGTACCTTGCCATTTTTAGCATATTTTCTTC
CTTTTTCTTTTTTCTTT
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FIGURE 1915

PGLTFLXKVLFCTALNLHVIFQWCRRYQLK

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FIGURE 1916A

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ACGAATTTAGAATATAGGTAGTGTTCTTGGAATACTTTTAGAATATGTTGGAATAAAGTCATCCTTTCTCATTTT
CTGAAAAAGCAGGGAAGAAGCAACAGTTTGGTTTTGATGAGTTTGGAATTTTCTGCCACTTGTAGTGATAAATGT
TCTTAGCAGAAGCACGTGGCAGCATTAAACTTAAAAATTAATATCAGTACGTATGTTAATAATTTTAACTAGTTT
TATTTTAGAAGGATAAGGATATTCTGACTAGATTACAGTAACATCTACAATTGCAATTTCTATGACAGTAAATTT
AGCTTCTATAAAACGTAAAGAACCTTTAGTAAAACAGCAGGGAATTGAGTATCATCTGTTGAATAAATAAATTTA
TCATTTTATCCTGCCAGAAGTATGATGGGCATCTTCCAATAGAAATAAAAGCTGTTCCTGAGGGCTTTGTCATTC
CCAGAGGAAATGTTCTCTTCACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGGTAA
ATTGTTTTTTTAATTCTTATTTAACATTAATTGAATAAAGACCATTGAACTGAGATTACAGTTTAGAATTTGTTA
CTAATANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNG
ACTAAATAATCTTTAAGGTTTCTTCTAGTAGAATAGAATGTTCTGAGATTTTGTTTAAATCAAATTATTGAGAGT
GATTGTTTTTAAAACCTAGTTGGCTTTCATCTAATTCATTGCCATTTTAAGTGTGTATTATTTTAGAGCAAACTT
AGAAAAACAGCACATTTCTAGTAACTTACGACATTCGATGAATGATAAATGTTCAAGTTAGACTAAAGGAACTTT
ATTCCAACTTCTAGTAACTACTTTCTTCATTTTTCTCTCATCAGTTTAGGTCTTAGGATCTACCATCTGTTACTT
TTCAGTTTCTCATCTAAATAAAACAAGATCTGCTGTTCATATTGTTTAATTTCTCAGGAAGGGTACATTTTGGGC
TTTGGGTTTATACTGCGAGCCTTTTTTTTTGTTTTTCTTGTATGTATACCTAAGTAGTCATATGTTTTCACATGGT
CAGAGTTTTGATAATAATACTCTACCTAGCTTCTGAACAGTTTAATAATAGATTTAATCCGTGAGAGGAAATACC
CTCGAAAGTTACTATAGAAATAACACCTTACTATCTGGTGGCATTTACTTAGTTCTTAGAACTGACTAATTAGTT
TATCGGTTAAAGTAATTTGCTATTATATTGTAAAATAGTACATTTGAGGCTCACTTATAAAAATTGGAAAACATC
GAAATATAAGAGGTCCAAGAGGGTGTTTGAAACACATTTTGCTAAGTTGACAGGAAATTAATAGACTTTTTATGG
GCCATTAACTAATAATACACTCAAAAAAAAGGTACAGTTAAATAAAGGTTTTAAATAGTCTATACCGTATACTAA
AACTAAATTAATATTTAGGACTGAAATAACATATTGATTAAGTACCAGCTATGTACCCAAAAAATGCTGGGCACA
GAAGTTAGAGTAAGATGTTTTACTTAAAGGGCCTTTGAGTGAGAGTTGGCAATTCATTCTGAACTAACCACTAAT
ATCATTAAGAATTAGTGCTGAGTTGGTAGCAGGAAATAGGTAATTCTGTCTAAAGGAATCATGAAATGGAAAATA
AATAAGCTTTTAATAAGGAGAAGGAAGAGCTGAAGAAATGGCACAGTGTTCTTAGAATGACAGATAGTCCTATGG
GGACTGCAGCATAAAAGTGAAAAATGTATAAGATAAACCTTTAGATGGTAAGCAAGGCAAGATTCTCAAATTCTG
TATGAATCAGCTCCACCTCCGCCCCATGGACAGTAGATGACCGTTAATGGCTTTTAAGGAAAGATGCAACCTGGA
AAAAAAAAGAAAAAAACTTGTTTTAGAATGGTAACCACTGGCAATATGAAGAATAATTAGACTAAAGAAGAGAGG
TAGGATAATCATGGGCATTGGCAGTGGAATTGAAAGAGTAATTTCAGAAGCAGAATGGTCAGATGTTGGAGGTGA
TTGGTTATAGAGTTTAAGAATTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNCCTGATTCTGTGGTTGACTGGATGGTCGTCTGCTGCTCTTGCTTAGACTTAGGCATCTGCAT
TTAGCTGAGGGTTCAGCCAGGGCTGGACATCCTTTAATGGCCTCATTCCCATGTCTGGGGCCTCAGGTCAGATAG
CTGGGACTACCGGGTCTCACTCCAGAAGAGGCTTCTTCAGAGCATGGTAGTCTTGGGGTTCTAAGAGAATGAGAG
TAGAAGCTGCAAAACCTCTTGAAACTGGGGCTTGGGAGTCACACATGACTTTCTCCACATTCTGTTCGTCAAAAG
CGAATCATAAGGACAGCACAGACTCAAGGGATAAGAAAGGAGATTCCATCTCTTGATGAGAAGAGCTGCAAAGGC
CATATTTAATCAGTCACAGGAGTCTAATGCTACAAAGTAGTTTTTAAAAAGATGACTAGATTGGCAAGTTCAAG
GTTAATCTTTTTATTTGTTTTATTTATATATCACTTAGCTGGTATTCAGTAAAAGCTTGCTTTGTAAAATTTAGT
TAATATCTTTTTGGTTCAGCACAGACATTGCATCATCTTAGCAGCTCTTTTTCAAACAGATTTGAAGCTGCTTCA
AATAACAATCTGGTTTATAAAATGAAAATAGAAAATTATGATCTTAGAATGAAGAAGTGAATTTCTAAGCCATGA
TAATTATTACGGTTGCTGTGATTAGACAGACTTTTCTGTGGAGCTTCCTGACAACCAAGAAAAAAGGGGAAATCA
AGGAACTGTTCTTATCAGAAAGTAGGAACCCAGCAATTCTTTCATTTTCTCATTGGGAACTTAATAGTCACTGAA
TTACAAAGTAGACAGTGACCTTGATTATACAACATATGCGGAAGTGTTCCTGTAACTTACGTGAGTATTTATC
AAATACTTATATATTTGATAAAAGCTAAGTACATAAAGCATAACTCAGTAGATAGAATTCTCTAGTAGTAAGCTA
AAGTGCTTCAAGTATTAGTTGTCATATTAATCCAAGAGAAAATTAGATCTGAGACTACCTCGAGGAGTAAACGAA
CAACTTCTTTAAACCAATACTAGTCAAAATGCAGTCCACGGACCAATGCTGGTTCATGCCCTATTTGATCCAAGT
CCACATTAAGTACAGAAATGAAGAGTAAGCATTTAGAAACTTGGGGCAATTTGACATTGCCTCAACATCCAAGTT
TCAGTGTCCTTTATAAACTATTGATCCATGACAGATCATGAAACTTTCTAAAAATTGATCCTTTTATCACATAGT
CTTTCAAAATATTATTTGCTTCTTTGAAGCTTTGGATAGAAACTTGATAATGTGAAGTTCTCTGCTATGTGGACC
TGGTGTGCTTATCTTCTTTGTTGCTGATTTGAGAGCTGAGCTATGTACTATATCTGGAATGCACACAGCAGGCAT
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FIGURE 1916B

CCTGCTGTGCAGTTCTGTGTCTAGTTAATAGTATGGAAGTTCACATTATCAAGTTTCTATCCAAAGCTTCAAAGA
AGCAAATAATATTTTGAAAGACTATGTGATAAAAGGATCAATTTTTAGAAAGTTTCATGATCTGTCATGGATCAA
TAGTTTATAAAGGACACTGAAACTTGG**ATG**TTGAGGCAATGTCAAATTGCCCCA

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FIGURE 1917

MLRQCQIA

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FIGURE 1918

AACCAAAAAAATAGCATCTGTAGCCCCTGTGTGCTTACTTTAAGTATATGTTACTGAAAAATGCGGAGTGAGCACT
TACAACTCATTCTCCTGGGAAGCACAGTGATACTATACCCCAAATGCTTTTCTTTATCATTTTAATTTTTATCTT
CTTTACTTACATTTCCAACATCAGTTAAGAGGGTCTTGTAGTTTTCTAACTGAAAGGAGATTGTAAAATCTCCTT
GCTCAAAACTCAGATGCAGAATATTATTTTTACTACAATAAATACATCTACAACAATGGTATTATATCTGGTTTA
TTTCAAAGTCAAGTTCTAATATAGGTAAACAAATATACTAATAAAGAGATAATGCTTTTCTCATGAAATGTATAA
TCTAGTAGGAATAAAGATAAACAATTTTTTTAAAAATTCTATTTCATTAAGCAAAAATGCAACTCAGAAGAATAA
TGTATATTAGCAGTCATTTACTATTTTTCAATTAAATTCCGATATATATGTAAAGTAAATTATTACTAATATCAA
ACATAGTTTAAAGAATTAGTGACTATGTGCACTTGGATCTCCATATGTAATGTACTATCAGCATCTTCACAAACA
CAGTAAATTTTACTACGCAAGTAAAACTTATTTTACTAAACGATGATTACTCCTTCTATATTCATATTCCTAAAC
ACATACAGTTTCTTAATGTAATTAAGTTTTTAACTAAAAAAAGGGAAATGCATTATTGAGGCGATAGGATTACTG
GGTGGCTATAAACACATCTGCTGCACAGCTGACATTTATCTTCTACAATGAGCAATGACAATTTTATTTTTTAAT
AATCAGTATGGACTAATCCTGATGATTTTTTTTTAACATTTCAAATAGGGCTGCATATGGCTTAAAATTAATAT
ATACATGTGTACCTATATAATATTCTTATTTATTAATGGACTTCCTACATAGCTCATATTGACGTTAGATTTAAA
TGAAATTCCAGAAGGGTTTTCTATAGGTAAGTCATACATTGGATTTCCATATTACCT**ATG**ATTATTGAAGTATTT
ATTTCTGTTTTTAAGACTTCAGAGCAATTTTGCTGGTCATTTGTTTTCTGTGTTTTTATTTTGAAATTGTTCTTT
GAGGCATTGTCCTTATTTACATTTTTAAGGTATGTTAATAAAATAATATTTTTAATGAAAAA

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FIGURE 1919

MIIEVFISVFKTSEQFCWSFVFCVFILKLFFEALSLFTFLRYVNKIIFLM

FIGURE 1920A

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AGGAATGAAAGGTCATAAGCCATTAGAAATAGTGGCATTATTATGCAATAACAACACCCTAGCTAACCTGCTTTT
GTCATCTGTAGCACTTACAATAAAGAATGATGACCTTCCAACCCTGGACACTACCTCGATAAAGCAAACCAGAGA
TCCTCTCTACACTTTCTATGGAAGCCATAAAAGTTGCCATCAATATATCCACTTTCATAGTTCTATACTTTTATA
CTTTCTAGACTTTTTTATAGACTTTATGATCAGATCTTTTTGTCTCAGAGGATAGGTTTTGCAAGATTCAAAGGA
AAATCAAACTCCTTGGTTGTTCCAGCTTTGAAGCTTTTGCTTCAGTAAATTTGTTTAAAGAACCAGATCACATAC
CATTTATCAAATTCTTTACTTAAGTCAGAATACTTTGCAGACATACATATTTGGAAAACAAACTGTTTCTTGTTC
ACTAGATAGAATCTGTATTGTAGTAAGAAACTACTTACAAGGTGGCTTTCTTTCTGCTTTGTTACTCTATGTATT
ACTCAATAATATATGTATGGTCACAGGTTCCTGGAGTTGTTTTATTTCTTTATGACAGACACATGAGTATGCACC
TCTCTCTAATCCTCTGATGTCACTGCAGCTTCAGTCTCTCTCACTCTGTTTTTGAGTGCCTTCAAAATGCCAGCA
TCCTGGAACATTCTTTTCCTGATCTAAATCCTACCTCTGACTATTTCATTATCCATGAATATTGGAATTCACCCA
TATTCCAATGGGCTTAACTCTACAAACTAGCTAAAACCTTGGACAAGAATTTGACCGTATTTCTAGTTTTGTTCC
TCCATGTCATTTTTAGGTTATATTTTTAACTTTTATTTATATCTTATTTCTTCACATATTTCGTCTCTCTGTTGA
AAGATTTTATCCTTATTTGACTCTTCACTTTTTTTACTTTCACCAGAAATTTGACGTTCCTTTAAAATTAAAGGT
CATTGAATGTCTTTTGAACACCTTTTTCTCAACTGAAGTCTTCCTGAATGCCTCCCCTTTCTGATGAAAGGATCC
TGAGTGCTGCTGTTGCTCTGCCCTGTTCCCATGTGCCCACTCCCTTCCGTACACATTTTGCAAGACTATACTCTT
TATTTTAGTCAAATTAATTTAAAATTGCTCCCTGGGTTTCTGCTCTCTCATGGCCCTGTCCCTCAAAAACTTCTG
TTTACTTTTTCTAGCTGTTTTCATCTAATTTGTTTAAAATGTATGATGGATCCATAATATATGAAGGATGTAATG
AAAAGGAGGTTGCAGTGTTTTATATAATATGATCGAGCACCTCCGTGATGAAACATTTAGCAATTGGCTAGTCCT
TCACAGCCAGAGTGGAAGTTTGTGCTGTGGACAGGTCTTTTTACTCCCTTCCAGTTCTCCTCCAAAACTGGACGA
AAAAGGAAAAAAAAAAGAACTCTTTCAAATGAGGAGATTTGATTGCATTTTTTTAGGTGAATGAAAGCTTGGAG
TTGAGCATTTGGGCCTTAGTCAGCATTTTTCCTTTCTGACTTAAAATCTCATGTCCTTTTCCTTAAAGTTAATAG
TACTCAGGTTTTTAAGACTAATAACCACACAAGGTGGGTATCTAAGAAGGCAGCTGTTAATACATTCTCCATCTT
TCCTGTCTGGCAACAGGAAAGATATTATTGGTGAGATAGTGCAAAATTGTGAGAATTGGTTATGTTCGATGATGA
ATAAATTCAAGATTTTTGAAGGCTTCACTGCTATTTGGGATGGGAAGGTGAGTTTACAAAATGAAAAAGGTAGAT
TTTTATGTTACAGAAATCAGTAACGGGTTTCTTGTTGTGTTAATTACCTTTCACTTGATTTGCCATGATGTTTCT
TCCTCATTATTGATCTAGAAGTTTGCCTCTTGGATAGTAACTAGCAACTTAGTATCTACTTTAAAAATTTGTGGCT
TTTCTCTTCAGGGTCCCAGGCCATAAAACAACGGAGAGCTGTACTTGCTTGTCACTTGGAGGAACCACATCCTTG
AGACAGCCTGCTGTCTTGTATGTCTTCAGTAGGAAACTTCTGACACACACATTCAAGGGAGTTCCTGCCCCTGAG
AAGTGTTCCCATAGCTTTCCAGTCGCAGGTTACTTTCACACTACGTCAGCTTCTCTGGTGAGATCAGGGATGTTA
CATATTACTTGAAAATGATTTCATAGGAAGTGAGGATGGGGCAAGAAAGGAGGTAGAAGCTGAATTTTGCTTAAC
TTCAGAAGGAAATCTGATACTTGCCTTGGCTAGTTCTGATCAACTAAAGAGCCTGTGTCTGTACTGGATGTGCCA
AAGAGTCAAGTTGTTTCTGGAATATCCAGCTCCTCTGAATGAACACAGCTTCCTCCCTACCTGTCTTTTATGGGT
GAAAAGGGACCGTCTGATGAGCATGATAGACATCCTGTACAGGACTCAAGACTGTTTCATTGCATTTGAAAGTTG
GTGGGAAGTATTTTATTCTGCTAGAGCTCCTAACCCTCCTAGAAATATCTTTTCATGCTCTATTAATTCAATTCA
TTAGTTTAAAAAGAAACAGTGTGACATAATTTTGGTGTTTACTTCTTAAGTTGTCTCCCCAAGGGCATATATGTA
GCCTCTGAAAATGGGATGATTTCTTCTCAATCTTCCATAAATTTGAATATGCATTTTATTCATTTCTTGACATGG
GCTGTGTGACTGTTTTCCATCAGCAGTTCTGGCTTTGTCCACAAGGGAGCAATAAAGTACGTTAGCTTTATTCTC
AACCTTCTAAAGAAAGATCCCACTTTTAAATCTCTTCTGGAATAGCCTCTTAGCTCAAAGCTTATTCATGTATTT
TGATTATTTAAGAAATTTTCCCTTATTACAAAGTCCAGTCGTCGTTCATCCCTCATGATGCCAAGCAATGATTGA
TGTGTGGGTGTGGAGTCCTTGTGGGTCAGGCATCTTAATTAATTAGACTTTTTACATATTGATGATCCCCAGATT
GAAAGCCAGGACCTTCCCATAGGGGCGCCTTTGTGTGCTAAAGGCAGAGCAGGCAGGCTTCTCCACTCCTATCTC
CTCCGCAGGCCACCACCATCACATCTATAGGAGGAACAAGAGCACTGGGGGAACTCTGGAGTATGAGTAAGGAAA
TGCTTCTCACCTTCTCTGCTCCAAAGAGATATCTGTTACATCAGGGAACAAGTCCTCTAGGTCAGGCACTTCCTC
CTGACCAGTGCAACGGGCACTCCAGGTTAGAAACTGTGTGTGCTCCCTCTCTGTCAGTTACTTGTCTAAGGGCTC
CTATCCGTGGTCATCAGCTCTCTGGCCATGAGTTCTGTTTGTGCTTATTGCAGCAGCATCTTCACAACAAACAGG
TCAGTAATCAACCTGGGAAGGGAAAAGACGACAGTAAATATTACCCCCTGTAGAGCCGGGAGGCATTTACACCTG
GAATGGCCTTCTTAACTGATTTCTGCCTGGCCACCTCACCCCCAGCCAAGTCTGAACCTGAGCAATACCAGGCAC
AGAGAGGTGTCTACTTGTAACTCCAACACTTGACAAAAAACAAAACTGAAGCTGTGATTGGTTTAGGCAGCAAGT
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FIGURE 1920B

GGCCAGGTGCAACTTGTTTGTTTTTATTTTTGTTTTCCCCAACAGTACTGAGATCACTTGCACTTTTCCTCATTT
CTTAAGAAAATCCAGTTTGCTTGCCATGACTTGTTTAGCGTTAGGTTTACAAAGCTTGTTGTTGAATGTTGAATA
TTTGTCCAAAGGAGTTTGACAAAATAGAAGCTGCTTGGTCCCTGTTCTGCCTGCTAGGTCATAAGGATGAAGGCC
ATGTGGCTGGGGTACTTATGTCAAGTCCAGAATGGGGCAGTGTCCCTCTCCTACCTCTCTGCGGAGACGCAATTG
AAGGTCAAGTAGACTCAGTGTAGGGCAGGCAGCTGTCATGCTGCAAAGAAGTTTAGAGGAGTCTTTGGGTTGGGG
AGGTGACAGGTAGGTAGGACAGGATCTCTTAAGATGGGAAAGATACTGGGGAGAGGAGGGCTGCTTGGCCCCAGG
GAACTGCAGTGAGGTGGAACTGAGCTCCGCTCCTGAATCTCCAAAGGAGCCCATGCTGCCCGGCTTCCCTGAGTC
ATTTTTTCCAGCATCCTGTCAGATCCCTCAATGTACTGATTTCCCCCTTGTGTTAACTATACCGATATTATTTTT
TTAGCAATTGAAATGCACTTTTTTATTTCAACTCAATCATGATTTTAAGTATAAAAAATTTATAGATTGTTAAAA
CTACTTTTTTGTGTATTTTTAACCACTCAATGTAGCATTGTATATTTATTCTTGTGAGACTCTGGTACAGGTGT
GCCGCCTAATGATTTTTCTGAGATGCTGGGCCTTTGGATGTGTACGGTAACCAACTTAATGCTAATGTTCAAAGT
ACAAAACAAAAAAAGGGG

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FIGURE 1921

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GGGTCACCTCCGGCCTGCAGGTCAATGTCTTGCACCAGGGCCTTTGGGTGGCATATGACAGTTTGGGACTGTCCA
GTCTCTGTACTTTCTGGGGCCTCTCCTGTTGAATGGCTAGGCACCTGCAGGTGTAGGGGCTCAGGGTCACCTCCG
GCCTGCAGGTCAATGTCTTGCTGCTCCTGTCCTGGGGAGGGCAGCTCTCTCCTAGCCCAACCCAAAAGCCCCCAG
AAGCCTCCACACAGCCAGCTCCGGAGTCTGTCCTTGGCT**TAG**GTGGCTTCAGGACTGGGCCAGGCACCTCCCTCA
CAGGACAATCAGACATGAAGGGTACCTTTCAATCACACAATCCTACACAGTCCTAGACATTAGGTGGGTCCTCTG
CCCTCTGCAGGTGACCTCATCAGAGAGCCCAGCAGCATCTGCCCATTTCCTGTCTACATTCTCCTCCCTAGTGCA
CTGGGAGTGGGAGGAGAGCCCAAAGCTCCCCCAGATCTTTAGGAAGCCCCACTGTCAGGCTGAGTGGAGGGCCTT
AGTGACAAGTGATAACTTCAGGGAAGTCCAGAGTGGGAGACACATCTGGGGTCCAGCTTGCTGGTGGGCACTCCC
TGCTCATGCCCACAGCCTCGAGGGGAAAAGGTCATAATTGACAGGTGGTTCCTGGGGTCCTGAGATCCAGCCCAA
GGGATGGGACGACATGCTAGGAAGGGGAAAGTGACAGAAGGTTCATATGCATCACACACCACTTTGACAAACCCA
TACATAGCATTCACTATAGTGAATAGAAAAACTCACGAAGCACCATAGTTCCAGCACTTTGCAAATATCCCCCAC
CCAATACCTTTGAGGTGAGAGTTACCATCATTGCCTAGTTACTGGTGAGAAAACAGAGGTTCCATGACGTGCCTG
AGGCACTGAGGGGGATGATGTCAGCACTTGTGGCCGCACGTGCAGGCACACGCCCTCCATGTCACACCAGTGCAC
TCACTTTGCAGATGAGGAGCGATGCCTGAGCACTGGGATGGCATCATTGGCTTGTGTTGGACAGTGCCTATATAG
GAGTCCAGCTTCTACCCACTTGTTCCAGTCTATCCACATTTTCCACCAACAGAACGAGTTTACTAGAAACCTCTC
CTCAAATTGGTACAAGGACTACATGACATGGCATGTGATGACACACACACAGAGGAGATCCTTTTTCCAGCATGC
AGGAAGAGGAGATCCCATACATGGGCTTGGGGGTGGCTTCCCTCACTGCAGTGTCCGGTCCCCCAGCAGCTCTGG
GAGCAGGAGTGACTATCTCCGTTTTGCAGATGAGGAAGCAGAACCATAAAGGTGACCTTTTTTCTTTTTCTTTTT
TACATTTAAAGTTAAATTGGTCTCCCCTCAAAAAATGCTTAGACTTAATTATTTTAATTATCCTCACATATACTC
CTCCGGCTTCTTTACTGAAGTGTAATTTACACACCATCAAACTTACCATTTGAAAACGTGCTATTCGGTAATCTT
TAGTATAATCATAAGGTTCTGCAACCAACCAACACCATTATCTAATTTCACGAACATTTTCATCACCACGAAACA
GAAACCCATACCACA
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FIGURE 1922

GSPPACRSMSCTRAFGWHMTVWDCPVSVLSGASPVEWLGTCRCRGSGSPPACRSMSCCSCPGEGSSLLAQPKSPQ
KPPHSQLRSLSLA

FIGURE 1923

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GGCAAGCTACTGGCACCTGCTGCTCTCAACTAACCTCCACACAATGGTGTTCGCATTTTGGAAGGTCTTTCTGAT
CCTAAGCTGCCTTGCAGGTCAGGTTAGTGTGGTGCAAGTGACCATCCCAGACGGTTTCGTGAACGTGACTGTTGG
ATCTAATGTCACTCTCATCTGCATCTACACCACCACTGTGGCCTCCCGAGAACAGCTTTCCATCCAGTGGTCTTT
CTTCCATAAGAAGGAGATGGAGCCAATTTCTATTTACTTTTCTCAAGGTGGACAAGCTGTAGCCATCGGGCAATT
TAAAGATCGAATTACAGGGTCCAACGATCCAGGTAATGCATCTATCACTATCTCGCATATGCAGCCAGCAGACAG
TGGAATTTACATCTGCGATGTTAACAACCCCCCAGACTTTCTCGGCCAAAACCAAGGCATCCTCAACGTCAGTGT
GTTAGTGAAACCTTCTAAGCCCCTTTGTAGCGTTCAAGGAAGACCAGAAACTGGCCACACTATTTCCCTTTCCTG
TCTCTCTGCGCTTGGAACACCTTCCCCTGTGTACTACTGGCATAAACTTGAGGGAAGAGACATCGTGCCAGTGAA
AGAAAACTTCAACCCAACCACCGGGATTTTGGTCATTGGAAATCTGACAAATTTTGAACAAGGTTATTACCAGTG
TACTGCCATCAACAGACTTGGCAATAGTTCCTGCGAAATCGATCTCACTTCTTCACATCCAGAAGTTGGAATCAT
TGTTGGGGGCCTTGATTGGTAGCCTGGTAGGTGCCGCCATCATCATCTCTGTTGTGTGCTTCGCAAGGAATAAGGC
AAAAGCAAAGGCAAAAGAAAGAAATTCTAAGACCATCGCGGAACTTGAGCCAATGACAAAGATAAACCCAAGGGG
AGAAAGCGAAGCAATGCCAAGAGAAGACGCTACCCAACTAGAAGTAACTCTACCATCTTCCATTCATGAGACTGG
CCCTGATACCATCCAAGAACCAGACTATGAGCCAAAGCCTACTCAGGAGCCTGCCCCAGAGCCTGCCCCAGGATC
AGAGCCTATGGCAGTGCCTGACCTTGACATCGAGCTGGAGCTGGAGCCAGAAACGCAGTCGGAATTGGAGCCAGA
GCCAGAGCCAGAGCCAGAGTCAGAGCCTGGGGTTGTAGTTGAGCCCTTAAGTGAAGATGAAAAGGGAGTGGTTAA
GGCA**TAG**GCTGGTGGCCTAAGTACAGCATTAATCATTAAGGAACCCATTACTGCCATTTGGAATTCAAATAACCT
AACCAACCTCCACCTCCTCCTTCCATTTTGACCAACCTTCTTCTAACAAGGTGCTCATTCCTACTATGAATCCAG
AATAAACACGCCAAGATAACAGCTAAATCAGCAAGGGTTCCTGTATTACCAATATAGAATACTAACAATTTTACT
AACACGTAAGCATAACAAATGACAGGGCAAGTGATTTCTAACTTAGTTGAGTTTTGCAACAGTACCTGTGTTGTT
ATTTCAGAAAATATTATTTCTCTCTTTTTAACTACTCTTTTTTTTTATTTTAGACAGAGTCGCTTGAGCCCAGGA
GGTGGAGGTTGCAGTGGGCCGAGATTGTGCCACTGCACTCCAACCTGGGTGACAGAGTGAGATTCCATCTGAAAA
ACAAAAACAAAAACAGAAAACAAACAAACAAAAAACAAAAAATCCCCACAACTTTGTCAAATAATGTACAGGCAA
ACACTTTCAAATATAATTTCCTTCAGTGAATACAAAATGTTGATATCATAGGTGATGTACAATTTAGTTTTGAAT
GAGTTATTATGTTATCACTGTGTCTGATGTTATCTACTTTGAAAGGCAGTCCAGAAAAGTGTTCTAAGTGAACTC
TTAAGATCTATTTTAGATAATTTCAACTAATTAAATAACCTGTTTTACTGCCTGTACATTCCACATTAATAAAGC
GATACCAATCTTATATGAATGCTAATATTACTAAAATGCACTGATATCACTTCTTCTTCCCCTGTTGAAAAGCTT
TCTCATGATCATATTTCACCCACATCTCACCTTGAAGAAACTTACAGGTAGACTTACCTTTTCACTTGTGGAATT
AATCATATTTAAATCTTACTTTAAGGCTCAATAAATAATACTCATAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1924

QVSVVQVTIPDGFVNVTVGSNVTLICIYTTTVASREQLSIQWSFFHKKEMEPISIYFSQGGQAVAIGQFKDRITG
SNDPGNASITISHMQPADSGIYICDVNNPPDFLGQNQGILNVSVLVKPSKPLCSVQGRPETGHTISLSCLSALGT
PSPVYYWHKLEGRDIVPVKENFNPTTGILVIGNLTNFEQGYYQCTAINRLGNSSCEIDLTSSHPEVGIIVGALIG
SLVGAAIIISVVCFARNKAKAKAKERNSKTIAELEPMTKINPRGESEAMPREDATQLEVTLPSSIHETGPDTIQE
PDYEPKPTQEPAPEPAPGSEPMAVPDLDIELELEPETQSELEPEPEPEPESEPGVVVEPLSEDEKGVVKA

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FIGURE 1925

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CAAGGATAGAATATTTCCTGTGGTTTTTCAGGTGGTTTCCAAGATTTGTCATTCAGATTTATAATACCCAACTTA
ATTATTTCAGTGACATGGTGAAAGTGTATCAGGATACCATTTCGCTTACTCTCAGAGTTTATGTAGGGCCCTTTT
GGGATTCAGTGTCTCCGTTCCACTGCACAAAATTGCAAGCAACGTGTATTTAATGATTCAGCTGATAAGCCCTTC
CTTTTATGAACTATGAGTTAGTATTAAAATGAAGGGTTGGGATTTCTTAACTTTTTAGCCATTTAATCTTTTAAC
ATGGGATCAAGCAACAGAATGTAGCAGAAGAGTATTATGAAAATGAGAACATTGAAAGATAATGTTGATGCTTGA
TTCTTTCACTTAATAAGGTGTCTGAGTATTTAATGATTTGTTTTGTAGTTCAATTACCGTAGAACAATCTACTT
AACGCTAGATTGTCTGTCGGGACCATGATGATTCTCAAATAAATATTGTATTTACCAATTCTACTCTTAATTTTT
TTAAAACTAAAGACAAGACAAAAAAGTAGATGTCTCTATAATACATTTATATGAAATTAAATTTTCTTAGTTTAT
TTTTGCTTTAGAATGCCAGTTGTAATCAAAGGACCATTGGCAAGACACTGGCCATTAGTAAGGCATCAAACTTTG
AGCTTTGCTTTACTTTAAAAAAAGTTATACCATGCAAGGATAGAAGTAGACATAGGCATTCACATAATCCCCTGTA
CATCCTCCAGAGGGGTTTTGTCAGATGAATTTCCCCCAAAGGGCCTCTTAGTTACCATCAGCTTCTCTTTGGGAC
ATATATATTTCTGACTGTGGTCATTTGTTAAGGAGAAGTTTAGCAGACGTTATTAATCAAATACATTTAAGAGAG
CTATTGCTTTTCACTTTCTCCCATGATGTAATGCTCTTATAATAACAGGTTTTGTGGGGTCCTCTTTATACAACT
ATCTGATGACAATATTCTTCATTCTTGTAAGCTCAGTTAACATCTTTTCACTTCCCATCTGATAAGTGCTAGCTG
CTGATTTTTTTGCTCAGTATCTCCATTTATATCAATTTATTTTCATCTCTAGAGCAGCGCATCAGGCTGCTCTCT
CGTGAATATATTGTTACTTTTTTCTGGCACTGGAATATACAACTATCCATGACAGCAAAATTTGAGGGCCATATT
GAGATCACCGGCTGATATGCTGACCATGTAAATATAAGTTTAAATTGCTTAGTTCCACGTTAGAATAGTTTAATC
AATTTCTGTCCCAGAAACTGGATATGAAACAGGTTAGATGAGGAAGCTTATATGGAAAAAAATTATCTTTCATCC
TCTCCACATATACATTTTTCCTGAGACTAGGTCATATGTATATTCATTTTGTACACATTGGGGAATTGGCATAGT
AATTTATTCAACAAACATTAATTAGCACATTCCCTTGTGACAAATCTGTAAAA
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FIGURE 1926

RIEYFLWFFRWFPRFVIQIYNTQLNYFSDMVKVYQDTISLTLRVYVGPFWDSVSPFHCTKLQATCI

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FIGURE 1927

AAAAAAAAAAAGAATACCATGGTAGCACAGTCATACCCTTTAATGGCTCACATTGTTCAAACAGCATGATATTAA
CTTTTTTT**TAA**AATCAAAGCACAAATGCTTCATGCATATAACTTAAAGAGTTTTAGATATTTTAAGTTAGAAATG
CCAAAAATATAAAAACCATGAAGAAAAATTTCTATAGAAGTTAGGAAATTAAAAATCGATCATAAGGGAAGCATC
TCAGGTTTTTATTGCAGTATTTGGAGATGAAAAATGACTTTCTATTGACACGATTTGTTATTTCAGCAAAATAGA
AGTCTGTCAGTCTAATGTTGGATGATCTGATAGTCTTTGCAAGAAATAATTGCAGAGAGTTTCTGCAATCACTGG
GAAATAGAAATCTATAAAAACATCTGAAAAAGTGTGAGACTGGGCCACTGCCTAGGGGGATAGCCCTGTTATTTC
TATGGNNNNNNNNNNNNNNNNNNNNNNNNNNCTCTGAAAAGGAAATTCTTAATTCCTGTATTTACAGTGCCTTTTTCA
GTAGGTTTTTCCTGCAAAGGGTGCTTGTCAGTTACTTTGCTTTAATGGATAAAATCTCAATTTCCAGGCCAAATG
TAACTTTTTTTGGTCTTACATCTTGATTTACTTGTACTTAAGAGGTTTTTTCTCCCTGTAATATTTTTAAAGCTT
TTAAAATTAACTTCAGCTTAAAGACAATATAAGTATGAATTTCTGTTCCAGCCTTGTAGTTCTGACTGTATTTG
TCAATGGTTTCTATATTAACGATAGCATTGTTCCATTGTGTAATCCTAAAGTTAAAAATTCTAAGAATGAGAAAA
ACAGCTATGAATAAATTATAAGTGAAAGATAGAAAAAACACATATTTCTATACTAAATATTGAGAGCTTTGTATT
TTTCAAGTTGGAATCAATATATTGAGAACTGACTTTAAATTTTAAAACTCTTATGCTGAGAAACCCTGACAGGTA
GGTAAACCCGTTTGTCTACATAAGATGTTAGCAGTGTAGTATTGTGCACATCAAGCATGTTACAAAAACTCTAAG
TTATTCTCTGAAGATACATAAGTTTTACTAGAGATACTCTGGATTTATTAGTCCTGCAAAGCCATT

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FIGURE 1928

KKKEYHGSTVIPFNGSHCSNSMILTFF

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FIGURE 1929

GTTATGATCAAATTAGACTGTGCCTGATTGGGTGGTAAGATCACTCTGAAAGAAAGCTCACTGTGAAGAG**ATG**AA
AGGTGGAGGCAGAGCTGTGAGGTCATGGGGAAAAGCCTGCTTTCCTTATAAGTCCTGCTGTTCATGTTGGAATAA
GGATCTGCTCTTCCTTGTTTCCATGCATTTTGCAGGATTCCAGGTACCATTACCACACTCTTCTGACCCA**TGA**AA
CCAACTGGCTGCTCACACATCACCAAACAGGTTGGGGGTTAGCCTTCAGCACAGGTGGATACATCTGGGATTCAC
TGAGATTCCTGCCCTCTCCTGCTTCCTAGTGGTTTGGGACAGGCCCTCTGCCCATCGTCAGCAGTTTTTTGCTTT
CATACAAACCTGGAAGGCACTGGCATCTGCCTAGGAAAGTGGATCTGTGAAGAACAGATGAACTCAATCCTTTCT
GGAGTCTGACAAAGAAGGGATAGGCTTCCTTGACATTGCCTGGTCCTGACAAGGCCTCCCTGACATTACTCCTCC
AATTTCACAGTTACCTTCTGTAAATCTATTTTCTCATCTACTGAATAGAATCAGGCGCCCTTTTTGTCTTCCCAC
CTCTTATCTCTTGGCAATTTTAAGGGGAATTAATGCAAGAACAACTTTAGTGTCTCTTGGGAAAACAAGCCAACC
AAATACAAAACCCATTAAGCCTACTAGGGTGAGTCCTCTTAACATGGGAAGGCGATGATTATGCAAACACCAGAG
TTCCCTCCTCTTCAGTTCCTAAGAATAAAGAACAGGTATCAAGAACTTTCTTTAAAGTTAGTGTAACTATAGTTA
ACAAAGTATCCATTGAAGTTTAGTGCCTGTAGGACTGAGCCAGTGCTTTATCAACCCAACACATCATCACCATGT
GCATACTCTAGAAAAAAAAATAGCTTCCTTAAAAGTTACAGAGGCTCTTAACGTGTTAAAACCGAAAAATCACAT
TTTTCTTGATTTCAAATATGTTCTACGGCCTTACTGTTGGGATGATATTTAGTATGTAACTTAGCATTCCAATTT
CTCAAGAATTTTTAGGCCGGGTGCGGTGGCTCATGCCTGTAGTCCC

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FIGURE 1930

MKGGGRAVRSWGKACFPYKSCCSCWNKDLLFLVSMHFAGFQVPLPHSSDP

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FIGURE 1931

AAGATATAAAAGCTCCAGAAACGTTGACTGGGACCACTGGAGACACTGAAGAAGGCAGGGGCCCTTAGAGTCTTG
GTTGCCAAACAGATTTGCAGATCAAGGAGAACCCAGGAGTTTCAAAGAAGCGCTAGTAAGGTCTCTGAGATCCTT
GCACTAGCTACATCCTCAGGGTAGGAGGAAG**ATG**GCTTCCAGAAGCATGCGGCTGCTCCTATTGCTGAGCTGCCT
GGCCAAAACAGGAGTCCTGGGTGATATCATCATGAGACCCAGCTGTGCTCCTGGATGGTTTTACCACAAGTCCAA
TTGCTATGGTTACTTCAGGAAGCTGAGGAACTGGTCTGATGCCGAGCTCGAGTGTCAGTCTTACGGAAACGGAGC
CCACCTGGCATCTATCCTGAGTTTAAAGGAAGCCAGCACCATAGCAGAGTACATAAGTGGCTATCAGAGAAGCCA
GCCGATATGGATTGGCCTGCACGACCCACAGAAGAGGCAGCAGTGGCAGTGGATTGATGGGGCCATGTATCTGTA
CAGATCCTGGTCTGGCAAGTCCATGGGTGGGAACAAGCACTGTGCTGAGATGAGCTCCAATAACAACTTTTTAAC
TTGGAGCAGCAACGAATGCAACAAGCGCCAACACTTCCTGTGCAAGTACCGACCA**TAG**AGCAAGAATCAAGATTC
TGCTAACTCCTGCACAGCCCCGTCCTCTTCCTTTCTGCTAGCCTGGCTAAATCTGCTCATTATTTCAGAGGGGAA
ACCTAGCAAACTAAGAGTGATAAGGGCCCTACTACACTGGCTTTTTTAGGCTTAGAGACAGAAACTTTAGCATTG
GCCCAGTAGTGGCTTCTAGCTCTAAATGTTTGCCCCGCCATCCCTTTCCACAGTATCCTTCTTCCCTCCTCCCCT
GTCTCTGGCTGTCTCGAGCAGTCTAGAAGAGTGCATCTCCAGCCTATGAAACAGCTGGGTCTTTGGCCATAAGAA
GTAAAGATTTGAAGACAGAAGGAAGAAACTCAGGAGTAAGCTTCTAGACCCCTTCAGCTTCTACACCCTTCTGCC
CTCTCTCCATTGCCTGCACCCCACCCCAGCCACTCAACTCCTGCTTGTTTTTCCTTTGGCCATAGGAAGGTTTAC
CAGTAGAATCCTTGCTAGGTTGATGTGGGCCATACATTCCTTTAATAAACCATTGTGTACATAAGAAAAAAAAAA

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FIGURE 1932

MASRSMRLLLLLSCLAKTGVLGDIIMRPSCAPGWFYHKSNCYGYFRKLRNWSDAELECQSYGNGAHLASILSLKE
ASTIAEYISGYQRSQPIWIGLHDPQKRQQWQWIDGAMYLYRSWSGKSMGGNKHCAEMSSNNNFLTWSSNECNKRQ
HFLCKYRP

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FIGURE 1933

CACCGGTCCCCCTTCCTGCCAACGCTGCATTTGGCTCGGGCCCGGTCCATGGCGGCCCCTCGGACCCTGCGCTGA
GCCCCGGAGGCCAGGGCGTCCGGGGCTGCGCCACTTCCGAGGGCCGAGCGCTGCCGGTCCCGGCGGTGCGACACG
GCCGGGAGGAGGAGAACAACGCAAGGGGCTCAACCGTCGGTCGCTGGAGCCCCCCCCGGGGCGTGGCCTCCCGCC
CCCTCAGCTGGGGAGGGCGGGGCTCGCTGCCCCCTGCTGCCGACTGCGACCCTTACAGGGGAGGGAGGGCGCAGG
CCGCGCGGAGATGAGGAGGAGGCTGCGCCTACGCAGGGACGCATTGCTCACGCTGCTCCTTGGCGCCTCCCTGGG
CCTCTTACTCT**ATG**CGCAGCGCGACGGCGCGGCCCCGACGGCGAGCGCGCCGCGAGGGCGAGGGAGGGCGGCACC
GAGGCCCACCCCCGGACCCCGCGCGTTCCAGTTACCCGACGCGGGTGCAGCCCCGCCGGCCTACGAAGGGGACAC
ACCGGCGCCGCCCACGCCTACGGGACCCTTTTGACTTCGCCCGCTATTTGCGCGCCAAGGACCAGCGGCGGTTTC
CACTGCTCATTAACCAGCCGCACAAGTGCCGCGGCGACGGCGCACCCGGTGGCCGCCCGGACCTGCTTATTGCTG
TCAAGTCGGTGGCAGAGGACTTCGAGCGGCGCCAAGCCGTGCGCCAGACGTGGGGCGCGGAGGGTCGCGTGCAGG
GGGCGCTGGTGCGCCGCGTGTTCTTGCTGGGCGTGCCCAGGGGCGCAGGCTCGGGCGGGGCCGACGAAGTTGGGG
AGGGCGCGCGAACCCACTGGCGCGCCCTGCTGCGGGCCGAGAGCCTTGCGTATGCGGACATCCTGCTCTGGGCCT
TCGACGACACCTTTTTTAACCTAACGCTCAAGGAGATCCACTTTCTAGCCTGGGCCTCAGCTTTCTGCCCCGACG
TGCGCTTCGTTTTTAAGGGCGACGCAGATGTGTTCGTGAACGTGGGAAATCTCCTGGAGTTCCTGGCGCCGCGGG
ACCCGGCGCAAGACCTGCTTGCTGGTGACGTAATTGTGCATGCGCGGCCCATCCGCACGCGGGCTAGCAAGTACT
ACATCCCCGAGGCCGTGTACGGCCTGCCCGCCTATCCGGCCTACGCGGGCGGCGGTGGCTTTGTGCTTTCCGGGG
CCACGCTGCACCGCCTGGCTGGCGCCTGTGCGCAGGTCGAGCTCTTCCCCATCGACGACGTCTTTCTGGGCATGT
GTCTGCAGCGCCTGCGGCTCACGCCCGAGCCTCACCCTGCCTTCCGCACCTTTGGCATCCCCCAGCCTTCAGCCG
CGCCGCATTTGAGCACCTTCGACCCCTGCTTTTACCGTGAGCTGGTTGTAGTGCACGGGCTCTCGGCCGCTGACA
TCTGGCTTATGTGGCGCCTGCTGCACGGGCCGCATGGGCCAGCCTGTGCGCATCCACAGCCTGTCGCTGCAGGCC
CCTTCCAATGGGACTCC**TAG**CTCCCCACTACAGCCCCAAGCTCCTAACTCAGACCCAGAATGGAGCCGGTTTCCC
AGATTATTGCCGTGTATGTGGTTCTTCCCTGATCACCAGGTGCCTGTCTCCACAGGATCCCAGGGGATGGGGGTT
AAGCTTGGCTCCTGGCGGTCCACCCTGCTGGAACCAGTTGAAACCCGTGTAATGGTGACCCTTTGAGCGAGCCAA
GGCTGGGTGGTAGATGACCATCTCTTGTCCAACAGGTCCCAGAGCAGTGGATATGTCTGGTCCTCCTAGTAGCAC
AGAGGTGTGTTCTGGTGTGGTGGCAGGGACTTAGGGAATCCTACCACTCTGCTGGATTTGGAACCCCCTAGGCTG
ACGCGGACGTATGCAGAGGCTCTCAAGGCCAGGCCCCACAGGGAGGTGGAGGGGCTCCGGCCGCCACAGCCTGAA
TTCATGAACCTGGCAGGCACTTTGCCATAGCTCATCTGAAAACAGATATTATGCTTCCCACAACCTCTCCTGGGC
CCAGGTGTGGCTGAGCACCAGGGATGGAGCCACACATAAGGGACAAATGAGTGCACGGTCCTACCTAGTCTTTCC
TCACCTCCTGAACTCACACAACAATGCCAGTCTCCCACTGGAGGCTGTATCCCCTCAGAGGAGCCAAGGAATGTC
TTCCCCTGAGATGCCACCACTATTAATTTCCCCATATGCTTCAACCACCCCCTTGCTCAAAAAACCAATACCCAC
ACTTACCTTAATACAAACATCCCAGCAACAGCACATGGCAGGCCATTGCTGAGGGCACAGGTGCTTTATTGGAGA
GGGGATGTGGGCAGGGGATAAGGAAGGTTCCCCCATTCCAGGAGGATGGGAACAGTCCTGGCTGCCCCTGACAGT
GGGGATATGCAAGGGGCTCTGGCCAGGCCACAGTCCAAATGGGAAGACACCAGTCAGTCACAAAAGTCGGGAGCG
CCACACAAACCTGGCTATAAGGCCCAGGAACCATATAGGAGCCTGAGACAGGTCCCCTGCACATTCATCATTAAA
CTATACAGGATGAGGCTGTACATGAGTTAATTACAAAAGAGTCATATTTACAAAAATCTGTACACACATTTGAAA
AACTCACAAAATTGTCATCTATGTATCACAAGTTGCTAGACCAAAATATTAAAAATGGGATAAAATTATAAAAAA
AAAAAAAAAAAA

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FIGURE 1934

MRSATARPRRRARREGEGGRHRGPPPDPARSSYPTRVQPRRPTKGTHRRRPRLRDPFDFARYLRAKDQRRFPLLI
NQPHKCRGDGAPGGRPDLLIAVKSVAEDFERRQAVRQTWGAEGRVQGALVRRVFLLGVPRGAGSGGADEVGEGAR
THWRALLRAESLAYADILLWAFDDTFFNLTLKEIHFLAWASAFCPDVRFVFKGDADVFVNVGNLLEFLAPRDPAQ
DLLAGDVIVHARPIRTRASKYYIPEAVYGLPAYPAYAGGGGFVLSGATLHRLAGACAQVELFPIDDVFLGMCLQR
LRLTPEPHPAFRTFGIPQPSAAPHLSTFDPCFYRELVVVHGLSAADIWLMWRLLHGPHGPACAHPQPVAAGPFQW
DS

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FIGURE 1935

AACGAAGCGTGCGCGCTTTGGTAACCGGCTAGAAATCCCGCACGCGCGCCTGCCTCCTCTCCCCAGGCCTGAGCT
GCCCCTCCCACTGCCTTTCCTTCTTCCCGCGAGTCAGAAGCTTCGCGAGGGCCCAGAGAGGCGGTGGGGTGGGCG
ACCCTACGCCAGCTCCGGGCGGGAGAAAGCCCACCCTCTCCCGCGCCCCAGGAAACCGCCGGCGTTCGGCGCTGC
GCAGAGCC**ATG**GAATTCTCCTGGCTGGAGACGCGCTGGGCGCGGCCCTTTTACCTGGCGTTCGTGTTCTGCCTGG
CCCTGGGGCTGCTGCAGGCCATTAAGCTGTACCTGCGGAGGCAGCGGCTGCTGCGGGACCTGCGCCCCTTCCCAG
CGCCCCCCACCCACTGGTTCCTTGGGCACCAGAAGTTTATTCAGGATGATAACATGGAGAAGCTTGAGGAAATTA
TTGAAAAATACCCTCGTGCCTTCCCTTTCTGGATTGGGCCCTTTCAGGCATTTTTCTGTATCTATGACCCAGACT
ATGCAAAGACACTTCTGAGCAGAACAGATCCCAAGTCCCAGTACCTGCAGAAATTCTCACCTCCACTTCTTGGAA
AAGGACTAGCGGCTCTAGACGGACCCAAGTGGTTCCAGCATCGTCGCCTACTAACTCCTGGATTCCATTTTAACA
TCCTGAAAGCATACATTGAGGTGATGGCTCATTCTGTGAAAATGATGCTGGATAAGTGGGAGAAGATTTGCAGCA
CTCAGGACACAAGCGTGGAGGTCTATGAGCACATCAACTCGATGTCTCTGGATATAATCATGAAATGCGCTTTCA
GCAAGGAGACCAACTGCCAGACAAACAGCACCCATGATCCTTATGCAAAAGCCATATTTGAACTCAGCAAAATCA
TATTTCACCGCTTGTACAGTTTGTTGTATCACAGTGACATAATTTTCAAACTCAGCCCTCAGGGCTACCGCTTCC
AGAAGTTAAGCCGAGTGTTGAATCAGTACACAGATACAATAATCCAGGAAAGAAAGAAATCCCTCCAGGCTGGGG
TAAAGCAGGATAACACTCCGAAGAGGAAGTACCAGGATTTTCTGGATATTGTCCTTTCTGCCAAGGATGAAAGTG
GTAGCAGCTTCTCAGATATTGATGTACACTCTGAAGTGAGCACATTCCTGTTGGCAGGACATGACACCTTGGCAG
CAAGCATCTCCTGGATCCTTTACTGCCTGGCTCTGAACCCTGAGCATCAAGAGAGATGCCGGGAGGAGGTCAGGG
GCATCCTGGGGGATGGGTCTTCTATCACTTGGGACCAGCTGGGTGAGATGTCGTACACCACAATGTGCATCAAGG
AGACGTGCCGATTGATTCCTGCAGTCCCGTCCATTTCCAGAGATCTCAGCAAGCCACTTACCTTCCCAGATGGAT
GCACATTGCCTGCAGGGATCACCGTGGTTCTTAGTATTTGGGGTCTTCACCACAACCCTGCTGTCTGGAAAAACC
CAAAGGTCTTTGACCCCTTGAGGTTCTCTCAGGAGAATTCTGATCAGAGACACCCCTATGCCTACTTACCATTCT
CAGCTGGATCAAGGAACTGCATTGGGCAGGAGTTTGCCATGATTGAGTTAAAGGTAACCATTGCCTTGATTCTGC
TCCACTTCAGAGTGACTCCAGACCCCACCAGGCCTCTTACTTTCCCCAACCATTTTATCCTCAAGCCCAAGAATG
GGATGTATTTGCACCTGAAGAAACTCTCTGAATGT**TAG**ATCTCAGGGTACAATGATTAAACGTACTTTGTTTTTC
GAAGTTAAATTTACAGCTAATGATCCAAGCAGATAGAAAGGGATCAATGTATGGTGGGAGGATTGGAGGTTGGTG
GGATAGGGGTCTCTGTGAAGAGATCCAAAATCATTTCTAGGTACACAGTGTGTCAGCTAGATCTGTTTCTATATA
ACTTTGGGAGATTTTCAGATCTTTTCTGTTAAACTTTCACTACTATTAATGCTGTATACACCAATAGACTTTCAT
ATATTTTCTGTTGTTTTTAAAATAGTTTTCAGAATTATGCAAGTAATAAGTGCATGTATGCTCACTGTCAAAAAT
TCCCAACACTAGAAAATCATGTAGAATAAAAATTTTAAATCTCACTTCACTTAGCCGACATTCCATGCCCTGACC
AATCCTACTGCTTTTCCTAAAAACAGAATAATTTGGTGTGCATTCTTTCAGACTTTTTCCTATACATTTTATATG
TAGAAATGTAGCAATGTATTTGTATAGATGTGATCATTCCTATATTGTTATTGATTTTTTTCACTTAATAAAAAT
TCACCTTATTCCTTAAAA

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FIGURE 1936

MEFSWLETRWARPFYLAFVFCLALGLLQAIKLYLRRQRLLRDLRPFPAPPTHWFLGHQKFIQDDNMEKLEEIIEK
YPRAFPFWIGPFQAFFCIYDPDYAKTLLSRTDPKSQYLQKFSPPLLGKGLAALDGPKWFQHRRLLTPGFHFNILK
AYIEVMAHSVKMMLDKWEKICSTQDTSVEVYEHINSMSLDIIMKCAFSKETNCQTNSTHDPYAKAIFELSKIIFH
RLYSLLYHSDIIFKLSPQGYRFQKLSRVLNQYTDTIIQERKKSLQAGVKQDNTPKRKYQDFLDIVLSAKDESGSS
FSDIDVHSEVSTFLLAGHDTLAASISWILYCLALNPEHQERCREEVRGILGDGSSITWDQLGEMSYTTMCIKETC
RLIPAVPSISRDLSKPLTFPDGCTLPAGITVVLSIWGLHHNPAVWKNPKVFDPLRFSQENSDQRHPYAYLPFSAG
SRNCIGQEFAMIELKVTIALILLHFRVTPDPTRPLTFPNHFILKPKNGMYLHLKKLSEC

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FIGURE 1937

GTTTTTTTCCCTTCTGAGCA**ATG**GAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCT
TGTACCTGCTGAACTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCA
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGCCCCT
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG
TGACCTGTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGT
TTGAGCGCTTTGTGGTAGCTGCCGGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGG
CTTTCTATTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAATTACTTCTGGCAACAAGTCCTGGATCCTG
CCTGGCACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA
AGCTGAAGCTGCAGCACATCCAGGCCCCACTGTCCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA
AA**TAG**TGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAAATGCTAA
GTGGGAGAAGAGAAACCTTTTTTTTGGGGGGCGGTTTTTTTGGTTTGTTGTTGGTTTTTTTTTTTTTTTGGCAA
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAGAAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG
GCCGGTCTTGAACTCCTGGGCTCAAGTGATTCTCCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA
CAGTGCACCTGGCCGAAATAGCTCAAGTTCTGAAAAACAAATCTGAATCTATTTGTTATTCTTAGCGTCACTGG
TCTGGCTTTCAGAATTAACATACAAGGTTGCCACACCTAGTTCTGCCCAGCTTTATGTCTTTTATTCCAGTATTC
CACCAAAGTTTGTTTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTACTTGACAGTTTAGTATATCC
ATAAAACTATTTGAGGTGGTTAAGGTTCTTGGGTTCATTTTCCTTAATACTTTGCTGAATATTGTAGATTGTAGG
CAATGAAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCTAAACATCAAGC
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTTGGAAGATGATT
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAAATCATCACAAGTGCCTCTGAAAGCGAGTGTTAGGTTGGTTAG
AGGGTTTAATATTTTCTGCAATGGTTTGTAGGAATTTTAATAAATGTAGTATATTTTCTGAGATGATTTTGTAAA
AGTACTATTTTAAATATCAAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

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FIGURE 1938

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELFSNLQEFAGPSGKLSLL
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVVCTLVLCSV
KNQERILREVCRVLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASFSKLKLQHI
QAPLSWELVRPHIYGYAVK

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FIGURE 1939

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AAAGAAACCCGAGACGTTCCGAAGTCAACGCAAGCAAAGGGGAGTGCGGGTCGGGGAGGAATATTCTTTTGGAAA
CGTAATATTGGCCTTGGGGCTCTCCAGCCCTTTGGGACTTCCAATGGGATCTTAGAAGCAGCCGAAGCAGCGTGA
GGGCGGCAGCCCAGGGCCAGCCACGATTTGAACGCTCTGCCTTGCAGCTCTTCTGGACCGAGGAGCCCAAAGCCC
TACCCTCACCATTCACCAGGTCCTGTGGGAAGAGCAGCGTGGAGGTGGGCTGAGGTTAGAAGGTGCAGAGCGTGG
AAGAAGATTGTGAGCTGAGTATTGGACATCTGTTCTTGAATAGTCCCTGGGCCTGCCATAGGAAAGGAAGTTCTC
CAGGGTTACAGTTCTTATCCGCGTGAATACAC**ATG**GCTCTGTTACGAAAAATTAATCAGGTGCTGCTGTTCCTTC
TGATCGTGACCCTCTGTGTGATTCTGTATAAGAAAGTTCATAAGGGGACTGTGCCCAAGAATGACGCAGATGATG
AATCCGAGACTCCTGAAGAACTGGAAGAAGAGATTCCTGTGGTGATTTGTGCTGCAGCAGGGAGGATGGGTGCCA
CTATGGCTGCCATCAATAGCATCTACAGCAACACTGACGCCAACATCTTGTTCTATGTAGTGGGACTCCGGAATA
CTCTGACTCGAATACGAAATGGATTGAACATTCCAAACTGAGAGAAATAAACTTTAAAATCGTGGAATTCAACC
CGATGGTCCTCAAAGGGAAGATCAGACCAGACTCATCGAGGCCTGAATTGCTCCAGCCTCTGAACTTTGTTCGAT
TTTATCTCCCTCTACTTATCCACCAACACGAGAAAGTCATCTATTTGGACGATGATGTAATTGTACAAGGTGATA
TCCAAGAACTGTATGACACCACCTTGGCCCTGGGCCACGCGGCGGCTTTCTCAGATGACTGCGATTTGCCCTCTG
CTCAGGACATAAACAGACTCGTGGGACTTCAGAACACATATATGGGCTATCTGGACTACCGGAAGAAGGCCATCA
AGGACCTTGGCATCAGCCCCAGCACCTGCTCTTTCAATCCTGGTGTGATTGTTGCCAACATGACAGAATGGAAGC
ACCAGCGCATCACCAAGCAATTGGAGAAATGGATGCAAAAGAATGTGGAGGAAAACCTCTATAGCAGCTCCCTGG
GAGGAGGGGTGGCCACCTCCCCAATGCTGATTGTGTTTCATGGGAAATATTCCACAATTAACCCCCTGTGGCACA
TAAGGCACCTGGGCTGGAATCCAGATGCCAGATATTCGGAGCATTTTCTGCAGGAAGCTAAATTACTCCACTGGA
ATGGAAGACATAAACCTTGGGACTTCCCTAGTGTTCACAACGACTTATGGGAAAGCTGGTTTGTTCCTGACCCTG
CAGGGATATTTAAACTCAATCACCATAGC**TGA**TATAACTCTACCCTTAAAATATTCCCTGTATAGAAATGTGGAA
TTGTCCCTTTGTAGCCAACTATAACATTGTTCTTTATGAATATTACCTTTGATACATATGATCCACAATATAAAA
ACCAAAAACTACTGTGTGCAAATTATACCTTGGACCATATAGGCATTGATTAACTTCTTTAAGTACATGTGATAA
CTATGGAAATCAAGATTATGTGACTGAAAAACATAAAGGAAGAGACCCATCTAGATAACAGCAATCAACCTGCTT
AATTCTGAATGACAATTATATCCACAAATTTTTAAAACTTCTACATGTATTTTTCACATGAAGATCTCCTTAACA
GGTTGCCAACCTTTTCTTTTATAAAACTATTACATTTAAAAATGGACGTCTGAAAAATAAAATATTCATCATTT
TTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 1940

MALLRKINQVLLFLLIVTLCVILYKKVHKGTVPKNDADDESETPEELEEEIPVVICAAAGRMGATMAAINSIYSN
TDANILFYVVGLRNTLTRIRKWIEHSKLREINFKIVEFNPMVLKGKIRPDSSRPELLQPLNFVRFYLPLLIHQHE
KVIYLDDDVIVQGDIQELYDTTLALGHAAAFSDDCDLPSAQDINRLVGLQNTYMGYLDYRKKAIKDLGISPSTCS
FNPGVIVANMTEWKHQRITKQLEKWMQKNVEENLYSSSLGGGVATSPMLIVFHGKYSTINPLWHIRHLGWNPDAR
YSEHFLQEAKLLHWNGRHKPWDFPSVHNDLWESWFVPDPAGIFKLNHHS

FIGURE 1941

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TACTTCTAAATAAATGAATTACTCAATCTCCTATGACCATCTATACATACTCCACCTTCAAAAAGTACATCAATA
TTATATCATTAAGGAAATAGTAACCTTCTCTTCTCCAATATGCATGACATTTTTAGACAATGCAATTGTGGCACT
GGCACTTATTTCAGTGAAGAAAAACTTTGTGGTTCTATGGCATTCATCATTTGACAAATGCAAGCATCTTCCTTA
TCAATCAGCTCCTATTGAACTTACTAGCACTGACTGTGGAATCCTTAAGGGCCCATTACATTTCTGAAGAAGAAA
GCTAAGATGAAGGACATGCCACTCCGAATTCATGTGCTACTTGGCCTAGCTATCACTACACTAGTACAAGCCGTA
GATAAAAAAGTGGATTGTCCACGGTTATGTACGTGTGAAATCAGGCCTTGGTTTACACCCAGATCCATTTATATG
GAAGCATCTACAGTGGATTGTAATGATTTAGGTCTTTTAACTTTCCCAGCCAGATTGCCAGCTAACACACAGATT
CTTCTCCTACAGACTAACAATATTGCAAAAATTGAATACTCCACAGACTTTCCAGTAAACCTTACTGGCCTGGAT
TTATCTCAAAACAATTTATCTTCAGTCACCAATATTAATGTAAAGAAGATGCCTCAGCTCCTTTCTGTGTACCTA
GAGGAAAACAAACTTACTGAACTGCCTGAAAAATGTCTGTCCGAACTGAGCAACTTACAAGAACTCTATATTAAT
CACAACTTGCTTTCTACAATTTCACCTGGAGCCTTTATTGGCCTACATAATCTTCTTCGACTTCATCTCAATTCA
AATAGATTGCAGATGATCAACAGTAAGTGGTTTGATGCTCTTCCAAATCTAGAGATTCTGATGATTGGGGAAAAT
CCAATTATCAGAATCAAAGACATGAACTTTAAGCCTCTTATCAATCTTCGCAGCCTGGTTATAGCTGGTATAAAC
CTCACAGAAATACCAGATAACGCCTTGGTTGGACTGGAAAACTTAGAAAGCATCTCTTTTTACGATAACAGGCTT
ATTAAAGTACCCCATGTTGCTCTTCAAAAAGTTGTAAATCTCAAATTTTTGGATCTAAATAAAAATCCTATTAAT
AGAATACGAAGGGGTGATTTTAGCAATATGCTACACTTAAAAGAGTTGGGGATAAATAATATGCCTGAGCTGATT
TCCATCGATAGTCTTGCTGTGGATAACCTGCCAGATTTAAGAAAAATAGAAGCTACTAACAACCCTAGATTGTCT
TACATTCACCCCAATGCATTTTTCAGACTCCCCAAGCTGGAATCACTCATGCTGAACAGCAATGCTCTCAGTGCC
CTGTACCATGGTACCATTGAGTCTCTGCCAAACCTCAAGGAAATCAGCATACACAGTAACCCCATCAGGTGTGAC
TGTGTCATCCGTTGGATGAACATGAACAAAACCAACATTCGATTCATGGAGCCAGATTCACTGTTTTGCGTGGAC
CCACCTGAATTCCAAGGTCAGAATGTTCGGCAAGTGCATTTCAGGGACATGATGGAAATTTGTCTCCCTCTTATA
GCTCCTGAGAGCTTTCCTTCTAATCTAAATGTAGAAGCTGGGAGCTATGTTTCCTTTCACTGTAGAGCTACTGCA
GAACCACAGCCTGAAATCTACTGGATAACACCTTCTGGTCAAAAACTCTTGCCTAATACCCTGACAGACAAGTTC
TATGTCCATTCTGAGGGAACACTAGATATAAATGGCGTAACTCCCAAAGAAGGGGGTTTATATACTTGTATAGCA
ACTAACCTAGTTGGCGCTGACTTGAAGTCTGTTATGATCAAAGTGGATGGATCTTTTCCACAAGATAACAATGGC
TCTTTGAATATTAAAATAAGAGATATTCAGGCCAATTCAGTTTTGGTGTCCTGGAAAGCAAGTTCTAAAATTCTC
AAATCTAGTGTTAAATGGACAGCCTTTGTCAAGACTGAAAATTCTCATGCTGCGCAAAGTGCTCGAATACCATCT
GATGTCAAGGTATATAATCTTACTCATCTGAATCCATCAACTGAGTATAAAATTTGTATTGATATTCCCACCATC
TATCAGAAAAACAGAAAAAAATGTGTAAATGTCACCACCAAAGGTTTGCACCCTGATCAAAAAGAGTATGAAAAG
AATAATACCACAACACTTATGGCCTGTCTTGGAGGCCTTCTGGGGATTATTGGTGTGATATGTCTTATCAGCTGC
CTCTCTCCAGAAATGAACTGTGATGGTGGACACAGCTATGTGAGGAATTACTTACAGAAACCAACCTTTGCATTA
GGTGAGCTTTATCCTCCTCTGATAAATCTCTGGGAAGCAGGAAAAGAAAAAGTACATCACTGAAAGTAAAAGCA
ACTGTTATAGGTTTACCAACAAATATGTCCTAAAAACCACCAAGGAAACCTACTCCAAAAATGAACAAAAA
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FIGURE 1942

MKDMPLRIHVLLGLAITTLVQAVDKKVDCPRLCTCEIRPWFTPRSIYMEASTVDCNDLGLLTFPARLPANTQILL
LQTNNIAKIEYSTDFPVNLTGLDLSQNNLSSVTNINVKKMPQLLSVYLEENKLTELPEKCLSELSNLQELYINHN
LLSTISPGAFIGLHNLLRLHLNSNRLQMINSKWFDALPNLEILMIGENPIIRIKDMNFKPLINLRSLVIAGINLT
EIPDNALVGLENLESISFYDNRLIKVPHVALQKVVNLKFLDLNKNPINRIRRGDFSNMLHLKELGINNMPELISI
DSLAVDNLPDLRKIEATNNPRLSYIHPNAFFRLPKLESLMLNSNALSALYHGTIESLPNLKEISIHSNPIRCDCV
IRWMNMNKTNIRFMEPDSLFCVDPPEFQGQNVRQVHFRDMMEICLPLIAPESFPSNLNVEAGSYVSFHCRATAEP
QPEIYWITPSGQKLLPNTLTDKFYVHSEGTLDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDGSFPQDNNGSL
NIKIRDIQANSVLVSWKASSKILKSSVKWTAFVKTENSHAAQSARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQ
KNRKKCVNVTTKGLHPDQKEYEKNNTTTLMACLGGLLGIIGVICLISCLSPEMNCDGGHSYVRNYLQKPTFALGE
LYPPLINLWEAGKEKSTSLKVKATVIGLPTNMS

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FIGURE 1943

GTGCGGTCCGTCGGTGGCCTAGAGATGCTGCTGCCGCGGTTGCAGTTGTCGCGCACGCCTCTGCCCGCCAGCCCG
CTCCACCGCCGTAGCGCCCGAGTGTCGGGGGGCGCACCCGAGTCGGGCC**ATG**AGGCCGGGAACCGCGCTACAGGC
CGTGCTGCTGGCCGTGCTGCTGGTGGGGCTGCGGGCCGCGACGGGTCGCCTGCTGAGTGGGCAGCCAGTCTGCCG
GGGAGGGACACAGAGGCCTTGTTATAAAGTCATTTACTTCCATGATACTTCTCGAAGACTGAACTTTGAGGAAGC
CAAAGAAGCCTGCAGGAGGGATGGAGGCCAGCTAGTCAGCATCGAGTCTGAAGATGAACAGAAACTGATAGAAAA
GTTCATTGAAAACCTCTTGCCATCTGATGGTGACTTCTGGATTGGGCTCAGGAGGCGTGAGGAGAAACAAAGCAA
TAGCACAGCCTGCCAGGACCTTTATGCTTGGACTGATGGCAGCATATCACAATTTAGGAACTGGTATGTGGATGA
GCCGTCCTGCGGCAGCGAGGTCTGCGTGGTCATGTACCATCAGCCATCGGCACCCGCTGGCATCGGAGGCCCCTA
CATGTTCCAGTGGAATGATGACCGGTGCAACATGAAGAACAATTTCATTTGCAAATATTCTGATGAGAAACCAGC
AGTTCCTTCTAGAGAAGCTGAAGGTGAGGAAACAGAGCTGACAACACCTGTACTTCCAGAAGAAACACAGGAAGA
AGATACCAAAAAAACATTTAAAGAAAGTAGAGAAGCTGCCTTGAATCTGGCCTACATCCTAATCCCCAGCATTCC
CCTTCTCCTCCTCCTTGTGGTCACCACAGTTGTATGTTGGGTTTGGATCTGTAGAAAAAGAAAACGGGAGCAGCC
AGACCCTAGCACAAAGAAGCAACACACCATCTGGCCCTCTCCTCACCAGGGAAACAGCCCGGACCTAGAGGTCTA
CAATGTCATAAGAAAACAAAGCGAAGCTGACTTAGCTGAGACCCGGCCAGACCTGAAGAATATTTCATTCCGAGT
GTGTTCGGGAGAAGCCACTCCCGATGACATGTCTTGTGACTATGACAACATGGCTGTGAACCCATCAGAAAGTGG
GTTTGTGACTCTGGTGAGCGTGGAGAGTGGATTTGTGACCAATGACATTTATGAGTTCTCCCCAGACCAAATGGG
GAGGAGTAAGGAGTCTGGATGGGTGGAAAATGAAATATATGGTTAT**TAG**GACATATAAAAAACTGAAACTGACAA
CAATGGAAAAGAAATGATAAGCAAAATCCTCTTATTTTCTATAAGGAAAATACACAGAAGGTCTATGAACAAGCT
TAGATCAGGTCCTGTGGATGAGCATGTGGTCCCCACGACCTCCTGTTGGACCCCCACGTTTTGGCTGTATCCTTT
ATCCCAGCCAGTCATCCAGCTCGACCTTATGAGAAGGTACCTTGCCCAGGTCTGGCACATAGTAGAGTCTCAATA
AATGTCACTTGGTTGGTTGTATCCAACTTTTAAGGGACAGAGCTTTACCTGGCAGTGATAAAGATGGGCTGTGGA
GCTTGGAAAACCACCTCTGTTTTCCTTGCTCTATACAGCAGCACATATTATCATACAGACAGAAAATCCAGAATC
TTTTCAAAGCCCACATATGGTAGCACAGGTTGGCCTGTGCATCGGCAATTCTCATATCTGTTTTTTTTCAAAGAAT
AAAATCAAATAAAGAGCAGG

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FIGURE 1944

MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSIES
EDEQKLIEKFIENLLPSDGDFWIGLRRREEKQSNSTACQDLYAWTDGSISQFRNWYVDEPSCGSEVCVVMYHQPS
APAGIGGPYMFQWNDDRCNMKNNFICKYSDEKPAVPSREAEGEETELTTPVLPEETQEEDTKKTFKESREAALNL
AYILIPSIPLLLLLVVTTVVCWVWICRKRKREQPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP
DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGRSKESGWVENEIYGY

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FIGURE 1945

GGCACGAGGGATGCAAGGAGATGAGACAGTTAGATTTACTTCCTCTTTTCTAATCTGAGAGGTTTCATGTTGAAG
AAAATCAGTGTTGGGGTTGCAGGAGACCTAAACACAGTCACC**ATG**AAGCTGGGCTGTGTCCTCATGGCCTGGGCC
CTCTACCTTTCCCTTGGTGTGCTCTGGGTGGCCCAGATGCTACTGGCTGCCAGTTTTGAGACGCTGCAGTGTGAG
GGACCTGTCTGCACTGAGGAGAGCAGCTGCCACACGGAGGATGACTTGACTGATGCAAGGGAAGCTGGCTTCCAG
GTCAAGGCCTACACTTTCAGTGAACCCTTCCACCTGATTGTGTCCTATGACTGGCTGATCCTCCAAGGTCCAGCC
AAGCCAGTTTTTGAAGGGGACCTGCTGGTTCTGCGCTGCCAGGCCTGGCAAGACTGGCCACTGACTCAGGTGACC
TTCTACCGAGATGGCTCAGCTCTGGGTCCCCCCGGGCCTAACAGGGAATTCTCCATCACCGTGGTACAAAAGGCA
GACAGCGGGCACTACCACTGCAGTGGCATCTTCCAGAGCCCTGGTCCTGGGATCCCAGAAACAGCATCTGTTGTG
GCTATCACAGTCCAAGAACTGTTTCCAGCGCCAATTCTCAGAGCTGTACCCTCAGCTGAACCCCAAGCAGGAAGC
CCCATGACCCTGAGTTGTCAGACAAAGTTGCCCCTGCAGAGGTCAGCTGCCCGCCTCCTCTTCTCCTTCTACAAG
GATGGAAGGATAGTGCAAAGCAGGGGGCTCTCCTCAGAATTCCAGATCCCCACAGCTTCAGAAGATCACTCCGGG
TCATACTGGTGTGAGGCAGCCACTGAGGACAACCAAGTTTGGAAACAGAGCCCCCAGCTAGAGATCAGAGTGCAG
GGTGCTTCCAGCTCTGCTGCACCTCCCACATTGAATCCAGCTCCTCAGAAATCAGCTGCTCCAGGAACTGCTCCT
GAGGAGGCCCCTGGGCCTCTGCCTCCGCCGCCAACCCCATCTTCTGAGGATCCAGGCTTTTCTTCTCCTCTGGGG
ATGCCAGATCCTCATCTGTATCACCAGATGGGCCTTCTTCTCAAACACATGCAGGATGTGAGAGTCCTCCTCGGT
CACCTGCTCATGGAGTTGAGGGAATTATCTGGCCACCAGAAGCCTGGGACCACAAAGGCTACTGCTGAA**TAG**AAG
TAAACAGTTCATCCATGATCTCACTTAACCACCCCAATAAATCTGATTCTTTATTTTCTCTTCCTGTCCTGCACA
TATGCATAAGTACTTTTACAAGTTGTCCCAGTGTTTTGTTAGAATAATGTAGTTAGGTGAGTGTAAATAAATTTA
TATAAAGTGAGAATTAGAGTTTAGCTATAATTGTGTATTCTCTCTTAACACAACAGAATTCTGCTGTCTAGATCA
GGAATTTCTATCTGTTATATCGACCAGAATGTTGTGATTTAAAGAGAACTAATGGAAGTGGATTGAATACAGCAG
TCTCAACTGGGGGCAATTTTGCCCCCCAGAGGACATTGGGCAATGTTTGGAGACATTTTGGTCATTATACTTGGG
GGGTTGGGGGATGGTGGGATGTGTGTGCTACTGGCATCCAGTAAATAGAAGCCAGGGGTGCCGCTAAACATCCTA
TAATGCACAGGGCAGTACCCCACAACGAAAAATAATCTGGCCCAAAATGTCAGTTGTACTGAGTTTGAGAAACCC
CAGCCTAATGAAACCCTAGGTGTTGGGCTCTGGAATGGGACTTTGTCCCTTCTAATTATTATCTCTTTCCAGCCT
CATTCAGCTATTCTTACTGACATACCAGTCTTTAGCTGGTGCTATGGTCTGTTCTTTAGTTCTAGTTTGTATCCC
CTCAAAAGCCATTATGTTGAAATCCTAATCCCCAAGGTGATGGCATTAAGAAGTGGGCCTTTGGGAAGTGATTAG
ATCAGGAGTGCAGAGCCCTCATGATTAGGATTAGTGCCCTTATTTAAAAAGGCCCCAGAGAGCTAACTCACCCTT
CCACCATATGAGGACGTGGCAAGAAGATGACATGTATGAGAACCAAAAAACAGCTGTCGCCAAACACCGACTCTG
TCGTTGCCTTGATCTTGAACTTCCAGCCTCCAGAACTATGAGAAATAAAATTCTGTTGTTTGTAAAAAAAAAAAA
AAAAAA

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FIGURE 1946

MKLGCVLMAWALYLSLGVLWVAQMLLAASFETLQCEGPVCTEESSCHTEDDLTDAREAGFQVKAYTFSEPFHLIV
SYDWLILQGPAKPVFEGDLLVLRCQAWQDWPLTQVTFYRDGSALGPPGPNREFSITVVQKADSGHYHCSGIFQSP
GPGIPETASVVAITVQELFPAPILRAVPSAEPQAGSPMTLSCQTKLPLQRSAARLLFSFYKDGRIVQSRGLSSEF
QIPTASEDHSGSYWCEAATEDNQVWKQSPQLEIRVQGASSSAAPPTLNPAPQKSAAPGTAPEEAPGPLPPPPTPS
SEDPGFSSPLGMPDPHLYHQMGLLLKHMQDVRVLLGHLLMELRELSGHQKPGTTKATAE

FIGURE 1947

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AGGAATAAAACCACAGAAGAAAATGGAGAGAAGGGGACTGAAATATTCAGAGCTTCTGCAGTGATTCCCAGCAAG
GACAAAGCCGCCTTTTTCCTGAGTTATGAGGAGCTTCTGCAGAGGCGCCTGGGCAAGTACGAGCACAGCATCAGC
GTGCGGCCCCAGCAGCTGTCCGGGAGGCTGAGCGTGGACGTGAATATCCTGGAGAGCGCGGGCATCGCATCCCTG
GAGGTGCTGCCGCTTCACAACAGCAGGCAGAGGGGCAGTGGGCGCGGGGAAGATGATTCTGGGCCTCCCCCATCT
ACTGTCATTAACCAAAATGAAACATTTGCCAACATAATTTTTAAACCTACTGTAGTACAACAAGCCAGGATTGCC
CAGAATGGAATTTTGGGAGACTTTATCATTAGATATGACGTCAATAGAGAACAGAGCATTGGGGACATCCAGGTT
CTAAATGGCTATTTTGTGCACTACTTTGCTCCTAAAGACCTTCCTCCTTTACCCAAGAATGTGGTATTCGTGCTT
GACAGCAGTGCTTCTATGGTGGGAACCAAACTCCGGCAGACCAAGGATGCCCTCTTCACAATTCTCCATGACCTC
CGACCCCAGGACCGTTTCAGTATCATTGGATTTTCCAACCGGATCAAAGTATGGAAGGACCACTTGATATCAGTC
ACTCCAGACAGCATCAGGGATGGGAAAGTGTACATTCACCATATGTCACCCACTGGAGGCACAGACATCAACGGG
GCCCTGCAGAGGGCCATCAGGCTCCTCAACAAGTACGTGGCCCACAGTGGCATTGGAGACCGGAGCGTGTCCCTC
ATCGTCTTCCTGACGGATGGGAAGCCCACGGTCGGGGAGACGCACACCCTCAAGATCCTCAACAACACCCGAGAG
GCCGCCCGAGGCCAAGTCTGCATCTTCACCATTGGCATCGGCAACGACGTGGACTTCAGGCTGCTGGAGAAACTG
TCGCTGGAGAACTGTGGCCTCACACGGCGCGTGCACGAGGAGGAGGACGCAGGCTCGCAGCTCATCGGGTTCTAC
GATGAAATCAGGACCCCGCTCCTCTCTGACATCCGCATCGATTATCCCCCCAGCTCAGTGGTGCAGGCCACCAAG
ACCCTGTTCCCCAACTACTTCAACGGCTCGGAGATCATCATTGCGGGGAAGCTGGTGGACAGGAAGCTGGATCAC
CTGCACGTGGAGGTCACCGCCAGCAACAGTAAGAAAATTCATCATCCTGAAGACAGATGTGCCTGTGCGGCCTCAG
AAGGCAGGGAAAGATGTCACAGGAAGCCCCAGGCCTGGAGGCGATGGAGAGGGGGACCCCAACCACACCGAGCGT
CTCTGGAGCTACCTCACCACAAAGGAGCTGCTGAGCTCCTGGCTGCAAAGTGACGATGAACCGGAGAAGGAGCGG
CTGCGGCAGCGGGCCCAGGCCCTGGCTGTGAGCTACCGCTTCCTCACTCCCTTCACCTCCATGAAGCTGAGGGGG
CCGGTCCCACGCATGGACGGCCTGGAGGAGGCCCACGGCATGTCGGCTGCCATGGGACCCGAACCGGTGGTGCAG
AGCGTGCGAGGAGCTGGCACGCAGCCAGGACCTTTGCTCAAGAAGCCATACCAGCCAAGAATTAAAATCTCTAAA
ACATCAGTTCGTGGCTTCAGAAGGGAAGAACAGATTTTTTCAAATGTCATGAAATTTCCTTTTGCCAGCATCCTG
GAACTATAATAAAAATTCAGAGGAAAGAACAACCTATGACTGGGTTTTGTTCTGCTGTGTCCAGATCATCCTCTG
GAAGTCTTGATTGTTGCCTTTCTGCTGCTGTGCTGTACGTGCAAGTTCCTAAAGCCAGGGACATCCCGGAGATGA
GCTGTGGATATAGAGTCCGCACAGCCTGCGGGAGACAGAATGTAATTCCTTCCAACACACACACACAGGCTTTAT
GGAATGCCAGAAAAGCTTCCTCTTGGATGCTGCCTGGAGTAATGACTTTTTGACCCTCCCCTCTTTTTTGGAGCA
AGCACTATCTTTCCTTGTAAAGGAATTTGGACAATTTGAGTAGAAATGGTGTGGTATGTGCACATAGAAACTCTC
AGAAAACTGTCAGATGAGCTAGACAGTTGTCCTCTATCTCCATGGGTCCCGCATCCCAAGGATCGAACCAACAAC
AGATCAAAAATACGTGAAAAAGGAATTGCATCTGTATTGAATGTGTACGGACTTTTTTTCTTGTCTTTGTTCCTT
AAACAATGTAGTGTAACAACTATTTACATCGCATCTCCTTTGCATTCATTATTATAAGTAAACTAGAGATGATTT
AAAGTGTATAGAAAGGCTGCGTGCAGTGGCTAATGTCTGTAATCCCAGCACTTTGAGAGGCCGAGGCAGGTGGAT
CACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACCCCATCTCTACTAAAAATACAATAATTA
GCTGGGCATGGTGGTGCACGCCTGTAATCCCAGCTATTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGA
GGCAGAGATTGCAGTGAACCGAGATTGCACCATTGCACTCCAGCCTGGGTGACAGAGTGAACCTCCGTCTCAAAA
ACAAAATAAATAAATAAGAATAAATT
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FIGURE 1948

MVGTKLRQTKDALFTILHDLRPQDRFSIIGFSNRIKVWKDHLISVTPDSIRDGKVYIHHMSPTGGTDINGALQRA
IRLLNKYVAHSGIGDRSVSLIVFLTDGKPTVGETHTLKILNNTREAARGQVCIFTIGIGNDVDFRLLEKLSLENC
GLTRRVHEEEDAGSQLIGFYDEIRTPLLSDIRIDYPPSSVVQATKTLFPNYFNGSEIIIAGKLVDRKLDHLHVEV
TASNSKKFIILKTDVPVRPQKAGKDVTGSPRPGGDGEGDPNHTERLWSYLTTKELLSSWLQSDDEPEKERLRQRA
QALAVSYRFLTPFTSMKLRGPVPRMDGLEEAHGMSAAMGPEPVVQSVRGAGTQPGPLLKKPYQPRIKISKTSVRG
FRREEQIFSNVMKFPFASILEL

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FIGURE 1949

GTGGCTTGGTATTCACTGGCAGGTTTCAGACATTTAGATCTTTCTTTTAATGACTAACACCATGCCTATCTGTGG
AGAAGCTGGCAACATGTCACACCTGGAAATTGTTTTTCAACATTAATACTATTATTTGGCAGTAATCCAGATTGC
TTTTGCCACCAACCTGAAGACATATAGAGGCAGAAGGACAGGAATAATTCTATTTGTTTCCTGTTTTGAAACTTC
CATCTGTAAGGCTATCAAAAGGAGATGTGAGAGAGGGTATTGAGTCTGGCCTGACAATGCAGTTCTTAAACCAAA
GGTCCATTATGCTTCTCCTCTCTGAGAATCCTGACTTACCTCAACAACGGAGACATGGCACAGTAGCCAGCTTGG
AGACTTCTCAGCCAATGCTCTGAGATCAAGTCGAAGACCCAATATACAGGGTTTTGAGCTCATCTTCATCATTCA
TATGAGGAAATAAGTGGTAAAATCCTTGGAAATACA**ATG**AGACTCATCAGAAACATTTACATATTTTGTAGTATT
GTTATGACAGCAGAGGGTGATGCTCCAGAGCTGCCAGAAGAAAGGGAACTGATGACCAACTGCTCCAACATGTCT
CTAAGAAAGGTTCCCGCAGACTTGACCCCAGCCACAACGACACTGGATTTATCCTATAACCTCCTTTTTCAACTC
CAGAGTTCAGATTTTCATTCTGTCTCCAAACTGAGAGTTTTGATTCTATGCCATAACAGAATTCAACAGCTGGAT
CTCAAAACCTTTGAATTCAACAAGGAGTTAAGATATTTAGATTTGTCTAATAACAGACTGAAGAGTGTAACTTGG
TATTTACTGGCAGGTCTCAGGTATTTAGATCTTTCTTTTAATGACTTTGACACCATGCCTATCTGTGAGGAAGCT
GGCAACATGTCACACCTGGAAATCCTAGGTTTGAGTGGGGCAAAAATACAAAAATCAGATTTCCAGAAAATTGCT
CATCTGCATCTAAATACTGTCTTCTTAGGATTCAGAACTCTTCCTCATTATGAAGAAGGTAGCCTGCCCATCTTA
AACACAACAAAACTGCACATTGTTTTACCAATGGACACAAATTTCTGGGTTCTTTTGCGTGATGGAATCAAGACT
TCAAAAATATTAGAAATGACAAATATAGATGGCAAAAGCCAATTTGTAAGTTATGAAATGCAACGAAATCTTAGT
TTAGAAAATGCTAAGACATCGGTTCTATTGCTTAATAAAGTTGATTTACTCTGGGACGACCTTTTCCTTATCTTA
CAATTTGTTTGGCATACATCAGTGGAACACTTTCAGATCCGAAATGTGACTTTTGGTGGTAAGGCTTATCTTGAC
CACAATTCATTTGACTACTCAAATACTGTAATGAGAACTATAAAATTGGAGCATGTACATTTCAGAGTGTTTTAC
ATTCAACAGGATAAAATCTATTTGCTTTTGACCAAAATGGACATAGAAACCTGACAATATCAAATGCACAAATG
CCACACATGCTTTTCCCGAATTATCCTACGAAATTCCAATATTTAAATTTTGCCAATAATATCTTAACAGACGAG
TTGTTTAAAAGAACTATCCAACTGCCTCACTTGAAAACTCTCATTTTGAATGGCAATAAACTGGAGACACTTTCT
TTAGTAAGTTGCTTTGCTAACAACACACCCTTGGAACACTTGGATCTGAGTCAAAATCTATTACAACATAAAAAT
GATGAAAATTGCTCATGGCCAGAAACTGTGGTCAATATGAATCTGTCATACAATAAATTGTCTGATTCTGTCTTC
AGGTGCTTGCCCAAAAGTATTCAAATACTTGACCTAAATAATAACCAAATCCAAACTGTACCTAAAGAGACTATT
CATCTGATGGCCTTACGAGAACTAAATATTGCATTTAATTTTCTAACTGATCTCCCTGGATGCAGTCATTTCAGT
AGACTTTCAGTTCTGAACATTGAAATGÀACTTCATTCTCAGCCCATCTCTGGATTTTGTTCAGAGCTGCCAGGAA
GTTAAAACTCTAAATGCGGGAAGAAATCCATTCCGGTGTACCTGTGAATTAAAAAATTTCATTCAGCTTGAAACA
TATTCAGAGGTCATGATGGTTGGATGGTCAGATTCATACACCTGTGAATACCCTTTAAACCTAAGGGGAATTÀGG
TTAAAAGACGTTCATCTCCACGAATTATCTTGCAACACAGCTCTGTTGATTGTCACCATTGTGGTTATTATGCTA
GTTCTGGGGTTGGCTGTGGCCTTCTGCTGTCTCCACTTTGATCTGCCCTGGTATCTCAGGATGCTAGGTCAATGC
ACACAAACATGGCACAGGGTTAGGAAAACAACCCAAGAACAACTCAAGAGAAATGTCCGATTCCACGCATTTATT
TCATACAGTGAACATGATTCTCTGTGGGTGAAGAATGAATTGATCCCCAATCTAGAGAAGGAAGATGGTTCTATC
TTGATTTGCCTTTATGAAAGCTACTTTGACCCTGGCAAAAGCATTAGTGAAAATATTGTAAGCTTCATTGAGAAA
AGCTATAAGTCCATCTTTGTTTTGTCTCCCAACTTTGTCCAGAATGAGTGGTGCCATTATGAATTTTACTTTGCC
CACCACAATCTCTTCCATGAAAATTCTGATCATATAATTCTTATCTTACTGGAACCCATTCCATTCTATTGCATT
CCCACCAGGTATCATAAACTGAAAGCTCTCCTGGAAAAAAAAGCATACTTGGAATGGCCCAAGGATAGGCGTAAA
TGTGGGCTTTTCTGGGCAAACCTTCGAGCTGCTATTAATGTTAATGTATTAGCCACCAGAGAAATGTATGAACTG
CAGACATTCACAGAGTTAAATGAAGAGTCTCGAGGTTCTACAATCTCTCTGATGAGAACAGATTGTCTA**TAA**AAT
CCCACAGTCCTTGGGAAGTTGGGGACCACATACACTGTTGGGATGTACATTGATACAACCTTTATGATGGCAATT
TG

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FIGURE 1950

MRLIRNIYIFCSIVMTAEGDAPELPEERELMTNCSNMSLRKVPADLTPATTTLDLSYNLLFQLQSSDFHSVSKLR
VLILCHNRIQQLDLKTFEFNKELRYLDLSNNRLKSVTWYLLAGLRYLDLSFNDFDTMPICEEAGNMSHLEILGLS
GAKIQKSDFQKIAHLHLNTVFLGFRTLPHYEEGSLPILNTTKLHIVLPMDTNFWVLLRDGIKTSKILEMTNIDGK
SQFVSYEMQRNLSLENAKTSVLLLNKVDLLWDDLFLILQFVWHTSVEHFQIRNVTFGGKAYLDHNSFDYSNTVMR
TIKLEHVHFRVFYIQQDKIYLLLTKMDIENLTISNAQMPHMLFPNYPTKFQYLNFANNILTDELFKRTIQLPHLK
TLILNGNKLETLSLVSCFANNTPLEHLDLSQNLLQHKNDENCSWPETVVNMNLSYNKLSDSVFRCLPKSIQILDL
NNNQIQTVPKETIHLMALRELNIAFNFLTDLPGCSHFSRLSVLNIEMNFILSPSLDFVQSCQEVKTLNAGRNPFR
CTCELKNFIQLETYSEVMMVGWSDSYTCEYPLNLRGIRLKDVHLHELSCNTALLIVTIVVIMLVLGLAVAFCCLH
FDLPWYLRMLGQCTQTWHRVRKTTQEQLKRNVRFHAFISYSEHDSLWVKNELIPNLEKEDGSILICLYESYFDPG
KSISENIVSFIEKSYKSIFVLSPNFVQNEWCHYEFYFAHHNLFHENSDHIILILLEPIPFYCIPTRYHKLKALLE
KKAYLEWPKDRRKCGLFWANLRAAINVNVLATREMYELQTFTELNEESRGSTISLMRTDCL

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FIGURE 1951

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AACTTCTAGAAGTTGAAGTTACAAAGGTATATAGAAGGTACACAGAATCAGAAAAGATTATAAAAGAAAGCAAGA
TTTTTGTTAGTGACGTCCTGTTTCCTCTGAAGAGTAATAGTTGGAATCAAAAGAGTCAACGCAATGAACTGTTAT
TTACTGCTGCGTTTTATGTTGGGAATTCCTCTCCTATGGCCTTGTCTTGGAGCAACAGAAAACTCTCAAACAAAG
AAAGTCAAGCAGCCAGTGCGATCTCATTTGAGAGTGAAGCGTGGCTGGGTGTGGAACCAATTTTTTGTACCAGAG
GAAATGAATACGACTAGTCATCACATCGGCCAGCTAAGATCTGATTTAGACAATGGAAACAATTCTTTCCAGTAC
AAGCTTTTGGGAGCTGGAGCTGGAAGTACTTTTATCATTGATGAAGAACAGGTGACATATATGCCATACAGAAG
CTTGATAGAGAGGAGCGATCCCTCTACATCTTAAGAGCCCAGGTAATAGACATCGCTACTGGAAGGGCTGTGGAA
CCTGAGTCTGAGTTTGTCATCAAAGTTTCGGATATCAATGACAATGAACCAAAATTCCTAGATGAACCTTATGAG
GCCATTGTACCAGAGATGTCTCCAGAAGGAACATTAGTTATCCAGGTGACAGCAAGTGATGCTGACGATCCCTCA
AGTGGTAATAATGCTCGTCTCCTCTACAGCTTACTTCAAGGCCAGCCATATTTTTCTGTTGAACCAACAACAGGA
GTCATAAGAATATCTTCTAAAATGGATAGAGAACTGCAAGATGAGTATTGGGTAATCATTCAAGCCAAGGACATG
ATTGGTCAGCCAGGAGCGTTGTCTGGAACAACAAGTGTATTAATTAAACTTTCAGATGTTAATGACAATAAGCCT
ATATTTAAAGAAAGTTTATACCGCTTGACTGTCTCTGAATCTGCACCCACTGGGACTTCTATAGGAACAATCATG
GCATATGATAATGACATAGGAGAGAATGCAGAAATGGATTACAGCATTGAAGAGGATGATTCGCAAACATTTGAC
ATTATTACTAATCATGAAACTCAAGAAGGAATAGTTATATTAAAAAAGAAAGTGGATTTTGAGCACCAGAACCAC
TACGGTATTAGAGCAAAAGTTAAAAACCATCATGTTCCTGAGCAGCTCATGAAGTACCACACTGAGGCTTCCACC
ACTTTCATTAAGATCCAGGTGGAAGATGTTGATGAGCCTCCTCTTTTCCTCCTTCCATATTATGTATTTGAAGTT
TTTGAAGAAACCCCACAGGGATCATTTGTAGGCGTGGTGTCTGCCACAGACCCAGACAATAGGAAATCTCCTATC
AGGTATTCTATTACTAGGAGCAAAGTGTTCAATATCAATGATAATGGTACAATCACTACAAGTAACTCACTGGAT
CGTGAAATCAGTGCTTGGTACAACCTAAGTATTACAGCCACAGAAAAATACAATATAGAACAGATCTCTTCGATC
CCACTGTATGTGCAAGTTCTTAACATCAATGATCATGCTCCTGAGTTCTCTCAATACTATGAGACTTATGTTTGT
GAAAATGCAGGCTCTGGTCAGGTAATTCAGACTATCAGTGCAGTGGATAGAGATGAATCCATAGAAGAGCACCAT
TTTTACTTTAATCTATCTGTAGAAGACACTAACAATTCAAGTTTTACAATCATAGATAATCAAGATAACACAGCT
GTCATTTTGACTAATAGAACTGGTTTTAACCTTCAAGAAGAACCTGTCTTCTACATCTCCATCTTAATTGCCGAC
AATGGAATCCCGTCACTTACAAGTACAAACACCCTTACCATCCATGTCTGTGACTGTGGTGACAGTGGGAGCACA
CAGACCTGCCAGTACCAGGAGCTTGTGCTTTCCATGGGATTCAAGACAGAAGTCATCATTGCTATTCTCATTTGC
ATTATGATCATATTTGGGTTTATTTTTTTGACTTTGGGTTTAAAACAACGGAGAAAACAGATTCTATTTCCTGAG
AAAAGTGAAGATTTCAGAGAGAATATATTCCAATATGATGATGAAGGGGGTGGAGAAGAAGATACAGAGGCCTTT
GATATAGCAGAGCTGAGGAGTAGTACCATAATGCGGGAACGCAAGACTCGGAAAACCACAAGCGCTGAGATCAGG
AGCCTATACAGGCAGTCTTTGCAAGTTGGCCCCGACAGTGCCATATTCAGGAAATTCATTCTGGAAAAGCTCGAA
GAAGCTAATACTGATCCGTGTGCCCCTCCTTTTGATTCCCTCCAGACCTACGCTTTTGAGGGAACAGGGTCATTA
GCTGGATCCCTGAGCTCCTTAGAATCAGCAGTCTCTGATCAGGATGAAAGCTATGATTACCTTAATGAGTTGGGA
CCTCGCTTTAAAAGATTAGCATGCATGTTTGGTTCTGCAGTGCAGTCAAATAATTAGGCTTTTTACCATCAAAA
TTTTTAAAAGTGCTAATGTGTATTCGAACCCAATGGTAGTCTTAAAGAGTTTTGTGCCCTGGCTCTATGGCGGGG
AAAGCCCTAGTCTATGGAGTTTTCTGATTTCCCTGGAGTAAATACTCCATGGTTATTTTAAGCTACCTACATGCT
GTCATTGAACAGAGATGTGGGGAGAAATGTAAACAATCAGCTCACAGGCATCAATACAACCAGATTTGAAGTAAA
ATAATTTAGGAAGATATTAAAAGTAGATGAGAGGACACAAGATGTAGTCGATCCTTATGCGATTATATCATTATT
TACTTAGGAAAGAGTAAAAATACCAAACGAGAAAATTTAAAGGAGCAAAAATTTGCAAGTCAAATAGAAATGTAC
AAATCGAGATAACATTTACATTTCTATCATATTGACATGAAAATTGAAAATGTATAGTCAGAGAAATTTTCATGA
ATTATTCCATGAAGTATTGTTTCCTTTATTTAAAAAAAAAAAAAAAAAAAAAGAATGCTAGGTAATCTTCGTAGA
AAACTAGAAAGTATGATAAACAACAGTTGGAGGAATCCATGGAAAATAGACGAGAAAATGTAAATAAGGCTTTCT
GGGGATCACAGAACTTTTGTATGAATAAAAGCCTTATAAAACCAGCTCTGGCATATGACTAAAATATTCCTCTAC
TATTTTTCAATGTCATCTAATGCAAACGCTCAACC
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FIGURE 1952

MNCYLLLRFMLGIPLLWPCLGATENSQTKKVKQPVRSHLRVKRGWVWNQFFVPEEMNTTSHHIGQLRSDLDNGNN
SFQYKLLGAGAGSTFIIDERTGDIYAIQKLDREERSLYILRAQVIDIATGRAVEPESEFVIKVSDINDNEPKFLD
EPYEAIVPEMSPEGTLVIQVTASDADDPSSGNNARLLYSLLQGQPYFSVEPTTGVIRISSKMDRELQDEYWVIIQ
AKDMIGQPGALSGTTSVLIKLSDVNDNKPIFKESLYRLTVSESAPTGTSIGTIMAYDNDIGENAEMDYSIEEDDS
QTFDIITNHETQEGIVILKKKVDFEHQNHYGIRAKVKNHHVPEQLMKYHTEASTTFIKIQVEDVDEPPLFLLPYY
VFEVFEETPQGSFVGVVSATDPDNRKSPIRYSITRSKVFNINDNGTITTSNSLDREISAWYNLSITATEKYNIEQ
ISSIPLYVQVLNINDHAPEFSQYYETYVCENAGSGQVIQTISAVDRDESIEEHHFYFNLSVEDTNNSSFTIIDNQ
DNTAVILTNRTGFNLQEEPVFYISILIADNGIPSLTSTNTLTIHVCDCGDSGSTQTCQYQELVLSMGFKTEVIIA
ILICIMIIFGFIFLTLGLKQRRKQILFPEKSEDFRENIFQYDDEGGGEEDTEAFDIAELRSSTIMRERKTRKTTS
AEIRSLYRQSLQVGPDSAIFRKFILEKLEEANTDPCAPPFDSLQTYAFEGTGSLAGSLSSLESAVSDQDESYDYL
NELGPRFKRLACMFGSAVQSNN

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FIGURE 1953

GAAAGACGTGGTCCTGACAGACAGACAATCCTATTCCCTACCAAA**ATG**AAGATGCTGCTGCTGCTGTGTTTGGGA
CTGACCCTAGTCTGTGTCCATGCAGAAGAAGCTAGTTCTACGGGAAGGAACTTTAATGTAGAAAAGATTAATGGG
GAATGGCATACTATTATCCTGGCCTCTGACAAAAGAGAAAAGATAGAAGAACATGGCAACTTTAGACTTTTTCTG
GAGCAAATCCATGTCTTGGAGAATTCCTTAGTTCTTAAAGTCCATACTGTAAGAGATGAAGAGTGCTCCGAATTA
TCTATGGTTGCTGACAAAACAGAAAAGGCTGGTGAATATTCTGTGACGTATGATGGATTCAATACATTTACTATA
CCTAAGACAGACTATGATAACTTTCTTATGGCTCACCTCATTAACGAAAAGGATGGGGAAACCTTCCAGCTGATG
GGGCTCTATGGCCGAGAACCAGATTTGAGTTCAGACATCAAGGAAAGGTTTGCACAACTATGTGAGGAGCATGGA
ATCCTTAGAGAAAATATCATTGACCTATCCAATGCCAATCGCTGCCTCCAGGCCCGAGAA**TGA**AGAATGGCCTGA
GCCTCCAGTGTTGAGTGGACACTTCTCACCAGGACTCCACCATCATCCCTTCCTATCCATACAGCATCCCCAGTA
TAAATTCTGTGATCTGCATTCCATCCTGTCTCACTGAGAAGTCCAATTCCAGTCTATCAACATGTTACCTAGGAT
ACCTCATCAAGAATCAAAGACTTCTTTAAATTTCTCTTTGATACACCCTTGACAATTTTTCATGAAATTATTCCT
CTTCCTGTTCAATAAATGATTACCCTTGCACTTAA

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FIGURE 1954

MKMLLLLLCLGLTLVCVHAEEASSTGRNFNVEKINGEWHTIILASDKREKIEEHGNFRLFLEQIHVLENSLVLKVH
TVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKE
RFAQLCEEHGILRENIIDLSNANRCLQARE

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FIGURE 1955

CTCAGACTACAGGTGTGAGCCACCATGCCCGGCCTTCTCCTTTAAGTATTGTTGGCCTCACTTTCCCAACTAAAA
TGGGAGCTCACTAAGAACAAAGGCTGTTCCTTCATCTTATACTTAGTACCTTGAAAGGGCCTACCACACAGTAGG
TGGTCACGTGTTAGTCTGTTAGGTCTTTTGGATTTTCTAGGTAGACAATCACATCGATTGCAAATAATAGTCTTT
CTCTTTTCAGTCTTTGTATTTCTTTTTTCTTGTTTTATTGCATTGACTGAGCTCATCAGTGAAATGTTGAATAGT
AGCAATGATGGAGGGCACCCCAATCTTATTATGCTCAATACTCATTAATTTATGCAATAGGAATGTAAAGTACCT
ACTGCAGGTCAAATCCTGTGCCTGGGGATAACAGTGTAACACATTTGAGATCTTTTCCTGTCCACTGAAATGCCT
GAGCAGTAGCAGTATTTCAGTAAACACGACAATGCTGAGAATATCACCAAATTCTCCAGACTTGCTGAAGTGTTC
CTTTGGGATCCTGGTTCCCAAAAAGTATGGACATAGGTCCCTGCTGGTGGCCCCAGGTTCCAGGCCATCAGTAAG
GTTGGGGGCTGCAGACTGGACCACTGCACCGTGGAGCAGAGGTGAAGAAACCAAGACGCAGAGAGGCCAAGCCCC
TTGCCTTGGGTCACACAGCCAAAGGAGGCAGAGCCAGAACTCACAACCAGATCCAGAGGCAACAGGGAC**ATG**GCC
ACCTGGGACGAAAAGGCAGTCACCCGCAGGGCCAAGGTGGCTCCCGCTGAGAGGATGAGCAAGTTCTTAAGGCAC
TTCACGGTCGTGGGAGACGACTACCATGCCTGGAACATCAACTACAAGAAATGGGAGAATGAAGAGGAGGAGGAG
GAGGAGGAGCAGCCACCACCCACACCAGTCTCAGGCGAGGTCATCATCATCTGCTTGGTGGTTCTGGATGCCCTC
CTGGTGCTTGCTGAGCTCATCCTGGACCTGAAGATCATCCAGCCCGACAAGAATAACTATGCTGCCATGGTATTC
CACTACATGAGCATCACCATCTTGGTCTTTTTTATGATGGAGATCATCTTTAAATTATTTGTCTTCCGCCTGGAG
TTCTTTCACCACAAGTTTGAGATCCTGGATGCCGTCGTGGTGGTGGTCTCATTCATCCTCGACATTGTCCTCCTG
TTCCAGGAGCACCAGTTTGAGGCTCTGGGCCTGCTGATTCTGCTCCGGCTGTGGCGGGTGGCCCGGATCATCAAT
GGGATTATCATCTCAGTTAAGACACGTTCAGAACGGCAACTCTTAAGGTTAAAACAGATGAATGTACAATTGGCC
GCCAAGATTCAACACCTTGAGTTCAGCTGCTCTGAGAAGGAACAAGAAATTGAAAGACTTAACAAACTATTGCGA
CAGCATGGACTTCTTGGTGAAGTGAAC**TAG**ACCCGGACCAGCTCCCCTCAAAAAGAAGACACTGTCTCATGGGCC
TGTGCTGTCACGAGAGGAACAGCTGCCCCTCCTGGGCCGCTTGGTGAGAGGTTTGGTTTGATACCTCTGCCTCCC
TCCTGCCAGCATGGATTCTGGGTGGACACAGCCTTGTGGAAGGTCCAGTACCACCAAGAGCTGCCCATCCACTCC
CACCCCACACTGTATCAAATGTATCACATTTTCTCATGTTGAACACTTTAGCCTTAATTGAAAATGAGCAACAAA
GCTGGACAATTGCTAGTTGTATATAAAATTTAATCTCACCGAATGTACAGTTTTCAAATTTCACGTGTATATTAA
GGAACTGATGCATCTGAGCATTCTGAAAGAAAGAAAAAGAAGCTACTTTAGCTGCCACCCATTCTAGAAAAGTC
TCTTATTTTCAAGCTGTTCTAAATAGCTTCGTCTCAGTTTCCCCAAAAGGGGTACCCAGGCCCCTCCTCTGTGTG
CCCCAGCTGCATCAGCCAGCTTCTAGGTGGCTCCATTGTTTTCTGCCACCTGACAACATTTTTCCTCAATTACTG
TACAACTACTGTATAAAATAAACAACTACTGTATAAAATAAACTCTCTCTTTTCCCTGGAAAAAAAAAAAAAAAA
AAA

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FIGURE 1956

MATWDEKAVTRRAKVAPAERMSKFLRHFTVVGDDYHAWNINYKKWENEEEEEEEQPPPTPVSGEVIIICLVVLD
ALLVLAELILDLKIIQPDKNNYAAMVFHYMSITILVFFMMEIIFKLFVFRLEFFHHKFEILDAVVVVVSFILDIV
LLFQEHQFEALGLLILLRLWRVARIINGIIISVKTRSERQLLRLKQMNVQLAAKIQHLEFSCSEKEQEIERLNKL
LRQHGLLGEVN

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FIGURE 1957

CTTCTCTGCCAGAAGATACCATTTCAACTTTAACACAGC**ATG**ATCGAAACATACAACCAAACTTCTCCCCGATCT
GCGGCCACTGGACTGCCCATCAGCATGAAAATTTTTATGTATTTACTTACTGTTTTTCTTATCACCCAGATGATT
GGGTCAGCACTTTTTGCTGTGTATCTTCATAGAAGGTTGGACAAGATAGAAGATGAAAGGAATCTTCATGAAGAT
TTTGTATTCATGAAAACGATACAGAGATGCAACACAGGAGAAAGATCCTTATCCTTACTGAACTGTGAGGAGATT
AAAAGCCAGTTTGAAGGCTTTGTGAAGGATATAATGTTAAACAAAGAGGAGACGAAGAAAGAAAACAGCTTTGAA
ATGCAAAAAGGTGATCAGAATCCTCAAATTGCGGCACATGTCATAAGTGAGGCCAGCAGTAAAACAACATCTGTG
TTACAGTGGGCTGAAAAAGGATACTACACCATGAGCAACAACTTGGTAACCCTGGAAAATGGGAAACAGCTGACC
GTTAAAAGACAAGGACTCTATTATATCTATGCCCAAGTCACCTTCTGTTCCAATCGGGAAGCTTCGAGTCAAGCT
CCATTTATAGCCAGCCTCTGCCTAAAGTCCCCCGGTAGATTCGAGAGAATCTTACTCAGAGCTGCAAATACCCAC
AGTTCCGCCAAACCTTGCGGGCAACAATCCATTCACTTGGGAGGAGTATTTGAATTGCAACCAGGTGCTTCGGTG
TTTGTCAATGTGACTGATCCAAGCCAAGTGAGCCATGGCACTGGCTTCACGTCCTTTGGCTTACTCAAACTC**TGA**

ACAGTGTCACCTTGCAGGCTGTGGTGGAGCTGACGCTGGGAGTCTTCATAATACAGCACAGCGGTTAAGCCCACC
CCCTGTTAACTGCCTATTTATAACCCTAGGATCCTCCTTATGGAGAACTATTTATTATACACTCCAAGGCATGTA
GAACTGTAATAAGTGAATTACAGGTCACATGAAACCAAAACGGGCCCTGCTCCATAAGAGCTTATATATCTGAAG
CAGCAACCCCACTGATGCAGACATCCAGAGAGTCCTATGAAAAGACAAGGCCATTATGCACAGGTTGAATTCTGA
GTAAACAGCAGATAACTTGCCAAGTTCAGTTTTGTTTCTTTGCGTGCAGTGTCTTTCCATGGATAATGCATTTGA
TTTATCAGTGAAGATGCAGAAGGGAAATGGGGAGCCTCAGCTCACATTCAGTTATGGTTGACTCTGGGTTCCTAT
GGCCTTGTTGGAGGGGGCCAGGCTCTAGAACGTCTAACACAGTGGAGAACCGAAACCCCCCCCCCCCCCCGCC
ACCCTCTCGGACAGTTATTCATTCTCTTTCAATCTCTCTCTCTCCATCTCTCTCTTTCAGTCTCTCTCTCTCAAC
CTCTTTCTTCCAATCTCTCTTTCTCAATCTCTCTGTTTCCCTTTGTCAGTCTCTTCCCTCCCCCAGTCTCTCTTC
TCAATCCCCCTTTCTAACACACACACACACACACACACACACACACACACACACACACACACACACACACACACA
CACACAGAGTCAGGCCGTTGCTAGTCAGTTCTCTTCTTTCCACCCTGTCCCTATCTCTACCACTATAGATGAGGG
TGAGGAGTAGGGAGTGCAGCCCTGAGCCTGCCCACTCCTCATTACGAAATGACTGTATTTAAAGGAAATCTATTG
TATCTACCTGCAGTCTCCATTGTTTCCAGAGTGAACTTGTAATTATCTTGTTATTTATTTTTTGAATAATAAAGA
CCTCTTAACATTAAAA

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FIGURE 1958

MIETYNQTSPRSAATGLPISMKIFMYLLTVFLITQMIGSALFAVYLHRRLDKIEDERNLHEDFVFMKTIQRCNTG
ERSLSLLNCEEIKSQFEGFVKDIMLNKEETKKENSFEMQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYYTMSN
NLVTLENGKQLTVKRQGLYYIYAQVTFCSNREASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSIHL
GGVFELQPGASVFVNVTDPSQVSHGTGFTSFGLLKL

FIGURE 1959

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GGGCTGCAGGTTTCGACCCGCGCTGGCGAGTCATGAGCGCCAAGTTTCCCACTGGCGCGCAAACTTGAGTTACTT
TTGAGCGTGGATACTGGCGAAGAGGCTGCGGGCGGTATTAGCGTTTGCAGCGACTTGGCTCGGGCAGCTGACCCC
AAAGTGTCTGTCTTCCTTCCTCTGCTTGTCTCTAGGCTCTGAAACTGCGGCGGCCACCGGACGCTTCTGGAGCAG
GTAGCAGCATGCAGCCGCCTCCAAGTCTGTGCGGACGCGCCCTGGTTGCGCTGGTTCTTGCCTGCGGCCTGTCGC
GGATCTGGGGAGAGGAGAGAGGCTTCCCGCCCGACAGGGCCACTCCGCTTTTGCAAACCGCAGAGATAATGACGC
CACCCACTAAGACCTTATGGCCCAAGGGTTCCAACGCCAGTCTGGCGCGGTCGTTGGCACCTGCGGAGGTGCCTA
AAGGAGACAGGACGGCAGGATCTCCGCCACGCACCATCTCCCCTCCCCCGTGCCAAGGACCCATCGAGATCAAGG
AGACTTTCAAATACATCAACACGGTTGTGTCCTGCCTTGTGTTCGTGCTGGGGATCATCGGGAACTCCACACTTC
TGAGAATTATCTACAAGAACAAGTGCATGCGAAACGGTCCCAATATCTTGATCGCCAGCTTGGCTCTGGGAGACC
TGCTGCACATCGTCATTGACATCCCTATCAATGTCTACAAGCTGCTGGCAGAGGACTGGCCATTGGAGCTGAGA
TGTGTAAGCTGGTGCCTTTCATACAGAAAGCCTCCGTGGGAATCACTGTGCTGAGTCTATGTGCTCTGAGTATTG
ACAGATATCGAGCTGTTGCTTCTTGGAGTAGAATTAAAGGAATTGGGGTTCCAAAATGGACAGCAGTAGAAATTG
TTTTGATTTGGGTGGTCTCTGTGGTTCTGGCTGTCCCTGAAGCCATAGGTTTTGATATAATTACGATGGACTACA
AAGGAAGTTATCTGCGAATCTGCTTGCTTCATCCCGTTCAGAAGACAGCTTTCATGCAGTTTTACAAGACAGCAA
AAGATTGGTGGCTGTTCAGTTTCTATTTCTGCTTGCCATTGGCCATCACTGCATTTTTTTATACACTAATGACCT
GTGAAATGTTGAGAAAGAAAAGTGGCATGCAGATTGCTTTAAATGATCACCTAAAGCAGAGACGGGAAGTGGCCA
AAACCGTCTTTTGCCTGGTCCTTGTCTTTGCCCTCTGCTGGCTTCCCCTTCACCTCAGCAGGATTCTGAAGCTCA
CTCTTTATAATCAGAATGATCCCAATAGATGTGAACTTTTGAGCTTTCTGTTGGTATTGGACTATATTGGTATCA
ACATGGCTTCACTGAATTCCTGCATTAACCCAATTGCTCTGTATTTGGTGAGCAAAAGATTCAAAAACTGCTTTA
AGGCTGGGCCACATGTTGGAAATAAGCTAGTAATGTTGTTTTCTGTCAATATTGAATGTGATGGTACAGTAAACC
AAAACCCAACAATGTGGCCAGAAAGAAAGAGCAATAATAATTAATTCACACACCATATGGATTCTATTTATAAAT
CAC
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FIGURE 1960

MQPPPSLCGRALVALVLACGLSRIWGEERGFPPDRATPLLQTAEIMTPPTKTLWPKGSNASLARSLAPAEVPKGD
RTAGSPPRTISPPPCQGPIEIKETFKYINTVVSCLVFVLGIIGNSTLLRIIYKNKCMRNGPNILIASLALGDLLH
IVIDIPINVYKLLAEDWPFGAEMCKLVPFIQKASVGITVLSLCALSIDRYRAVASWSRIKGIGVPKWTAVEIVLI
WVVSVVLAVPEAIGFDIITMDYKGSYLRICLLHPVQKTAFMQFYKTAKDWWLFSFYFCLPLAITAFFYTLMTCEM
LRKKSGMQIALNDHLKQRREVAKTVFCLVLVFALCWLPLHLSRILKLTLYNQNDPNRCELLSFLLVLDYIGINMA
SLNSCINPIALYLVSKRFKNCFKAGPHVGNKLVMLFSVNIECDGTVNQNPTMWPERKSNNN

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FIGURE 1961

TCTTGCTGCGCCTCCGCCTCCTCCTCTGCTCCGCCACCGGCTTCCTCCTCCTGAGCAGTCAGCCCGCGCGCCGGC
CGGCTCCGTT**ATG**GCGACCCGCAGCCCTGGCGTCGTGATTAGTGATGATGAACCAGGTTATGACCTTGATTTATT
TTGCATACCTAATCATTATGCTGAGGATTTGGAAAGGGTGTTTATTCCTCATGGACTAATTATGGACAGGACTGA
ACGTCTTGCTCGAGATGTGATGAAGGAGATGGGAGGCCATCACATTGTAGCCCTCTGTGTGCTCAAGGGGGGGCTA
TAAATTCTTTGCTGACCTGCTGGATTACATCAAAGCACTGAATAGAAATAGTGATAGATCCATTCCTATGACTGT
AGATTTTATCAGACTGAAGAGCTATTGTAATGACCAGTCAACAGGGGACATAAAAGTAATTGGTGGAGATGATCT
CTCAACTTTAACTGGAAAGAATGTCTTGATTGTGGAAGATATAATTGACACTGGCAAAACAATGCAGACTTTGCT
TTCCTTGGTCAGGCAGTATAATCCAAAGATGGTCAAGGTCGCAAGCTTGCTGGTGAAAAGGACCCCACGAAGTGT
TGGATATAAGCCAGACTTTGTTGGATTTGAAATTCCAGACAAGTTTGTTGTAGGATATGCCCTTGACTATAATGA
ATACTTCAGGGATTTGAATCATGTTTGTGTCATTAGTGAAACTGGAAAAGCAAAATACAAAGCC**TAA**GATGAGAG
TTCAAGTTGAGTTTGGAAACATCTGGAGTCCTATTGACATCGCCAGTAAAATTATCAATGTTCTAGTTCTGTGGC
CATCTGCTTAGTAGAGCTTTTTGCATGTATCTTCTAAGAATTTATCTGTTTTGTACTTTAGAAATGTCAGTTGC
TGCATTCCTAAACTGTTTATTTGCACTATGAGCCTATAGACTATCAGTTCCCTTTGGGCGGATTGTTGTTTAACT
TGTAAATGAAAAAATTCTCTTAAACCACAGCACTATTGAGTGAAACATTGAACTCATATCTGTAAGAAATAAAGA
GAAGATATATTAGTTTTTTAATTGGTATTTTAATTTTTATATATGCAGGAAAGAATAGAAGTGATTGAATATTGT
TAATTATACCACCGTGTGTTAGAAAAGTAAGAAGCAGTCAATTTTCACATCAAAGACAGCATCTAAGAAGTTTTG
TTCTGTCCTGGAATTATTTTAGTAGTGTTTCAGTAATGTTGACTGTATTTTCCAACTTGTTCAAATTATTACCAG
TGAATCTTTGTCAGCAGTTCCCTTTTAAATGCAAATCAATAAATTCCCAAAAATTT

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FIGURE 1962

MATRSPGVVISDDEPGYDLDLFCIPNHYAEDLERVFIPHGLIMDRTERLARDVMKEMGGHHIVALCVLKGGYKFF
ADLLDYIKALNRNSDRSIPMTVDFIRLKSYCNDQSTGDIKVIGGDDLSTLTGKNVLIVEDIIDTGKTMQTLLSLV
RQYNPKMVKVASLLVKRTPRSVGYKPDFVGFEIPDKFVVGYALDYNEYFRDLNHVCVISETGKAKYKA

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FIGURE 1963A

GATCCCATCGCAGCTACCGCG**ATG**AGAGGCGCTCGCGGCGCCTGGGATTTTCTCTGCGTTCTGCTCCTACTGCTT
CGCGTCCAGACAGGCTCTTCTCAACCATCTGTGAGTCCAGGGGAACCGTCTCCACCATCCATCCATCCAGGAAAA
TCAGACTTAATAGTCCGCGTGGGCGACGAGATTAGGCTGTTATGCACTGATCCGGGCTTTGTCAAATGGACTTTT
GAGATCCTGGATGAAACGAATGAGAATAAGCAGAATGAATGGATCACGGAAAAGGCAGAAGCCACCAACACCGGC
AAATACACGTGCACCAACAAACACGGCTTAAGCAATTCCATTTATGTGTTTGTTAGAGATCCTGCCAAGCTTTTC
CTTGTTGACCGCTCCTTGTATGGGAAAGAAGACAACGACACGCTGGTCCGCTGTCCTCTCACAGACCCAGAAGTG
ACCAATTATTCCCTCAAGGGGTGCCAGGGGAAGCCTCTTCCCAAGGACTTGAGGTTTATTCCTGACCCCAAGGCG
GGCATCATGATCAAAAGTGTGAAACGCGCCTACCATCGGCTCTGTCTGCATTGTTCTGTGGACCAGGAGGGCAAG
TCAGTGCTGTCGGAAAAATTCATCCTGAAAGTGAGGCCAGCCTTCAAAGCTGTGCCTGTTGTGTCTGTGTCCAAA
GCAAGCTATCTTCTTAGGGAAGGGGAAGAATTCACAGTGACGTGCACAATAAAAGATGTGTCTAGTTCTGTGTAC
TCAACGTGGAAAAGAGAAAACAGTCAGACTAAACTACAGGAGAAATATAATAGCTGGCATCACGGTGACTTCAAT
TATGAACGTCAGGCAACGTTGACTATCAGTTCAGCGAGAGTTAATGATTCTGGAGTGTTCATGTGTTATGCCAAT
AATACTTTTGGATCAGCAAATGTCACAACAACCTTGGAAGTAGTAGATAAAGGATTCATTAATATCTTCCCCATG
ATAAACACTACAGTATTTGTAAACGATGGAGAAAATGTAGATTTGATTGTTGAATATGAAGCATTCCCCAAACCT
GAACACCAGCAGTGGATCTATATGAACAGAACCTTCACTGATAAATGGGAAGATTATCCCAAGTCTGAGAATGAA
AGTAATATCAGATACGTAAGTGAACTTCATCTAACGAGATTAAAAGGCACCGAAGGAGGCACTTACACATTCCTA
GTGTCCAATTCTGACGTCAATGCTGCCATAGCATTTAATGTTTATGTGAATACAAAACCAGAAATCCTGACTTAC
GACAGGCTCGTGAATGGCATGCTCCAATGTGTGGCAGCAGGATTCCCAGAGCCCACAATAGATTGGTATTTTTGT
CCAGGAACTGAGCAGAGATGCTCTGCTTCTGTACTGCCAGTGGATGTGCAGACACTAAACTCATCTGGGCCACCG
TTTGGAAAGCTAGTGGTTCAGAGTTCTATAGATTCTAGTGCATTCAAGCACAATGGCACGGTTGAATGTAAGGCT
TACAACGATGTGGGCAAGACTTCTGCCTATTTTAACTTTGCATTTAAAGGTAACAACAAAGAGCAAATCCATCCC
CACACCCTGTTCACTCCTTTGCTGATTGGTTTCGTAATCGTAGCTGGCATGATGTGCATTATTGTGATGATTCTG
ACCTACAAATATTTACAGAAACCCATGTATGAAGTACAGTGGAAGGTTGTTGAGGAGATAAATGGAAACAATTAT
GTTTACATAGACCCAACACAACTTCCTTATGATCACAAATGGGAGTTTCCCAGAAACAGGCTGAGTTTTGGGAAA
ACCCTGGGTGCTGGAGCTTTCGGGAAGGTTGTTGAGGCAACTGCTTATGGCTTAATTAAGTCAGATGCGGCCATG
ACTGTCGCTGTAAAGATGCTCAAGCCGAGTGCCCATTTGACAGAACGGGAAGCCCTCATGTCTGAACTCAAAGTC
CTGAGTTACCTTGGTAATCACATGAATATTGTGAATCTACTTGGAGCCTGCACCATTGGAGGGCCCACCCTGGTC
ATTACAGAATATTGTTGCTATGGTGATCTTTTGAATTTTTTGAGAAGAAAACGTGATTCATTTATTTGTTCAAAG
CAGGAAGATCATGCAGAAGCTGCACTTTATAAGAATCTTCTGCATTCAAAGGAGTCTTCCTGCAGCGATAGTACT
AATGAGTACATGGACATGAAACCTGGAGTTTCTTATGTTGTCCCAACCAAGGCCGACAAAAGGAGATCTGTGAGA
ATAGGCTCATACATAGAAAGAGATGTGACTCCCGCCATCATGGAGGATGACGAGTTGGCCCTAGACTTAGAAGAC
TTGCTGAGCTTTTCTTACCAGGTGGCAAAGGGCATGGCTTTCCTCGCCTCCAAGAATTGTATTCACAGAGACTTG
GCAGCCAGAAATATCCTCCTTACTCATGGTCGGATCACAAAGATTTGTGATTTTGGTCTAGCCAGAGACATCAAG
AATGATTCTAATTATGTGGTTAAAGGAAACGCTCGACTACCTGTGAAGTGGATGGCACCTGAAAGCATTTTCAAC
TGTGTATACACGTTTGAAAGTGACGTCTGGTCCTATGGGATTTTTCTTTGGGAGCTGTTCTCTTTAGGAAGCAGC
CCCTATCCTGGAATGCCGGTCGATTCTAAGTTCTACAAGATGATCAAGGAAGGCTTCCGGATGCTCAGCCCTGAA
CACGCACCTGCTGAAATGTATGACATAATGAAGACTTGCTGGGATGCAGATCCCCTAAAAAGACCAACATTCAAG
CAAATTGTTCAGCTAATTGAGAAGCAGATTTCAGAGAGCACCAATCATATTTACTCCAACTTAGCAAACTGCAGC
CCCAACCGACAGAAGCCCGTGGTAGACCATTCTGTGCGGATCAATTCTGTCGGCAGCACCGCTTCCTCCTCCCAG
CCTCTGCTTGTGCACGACGATGTC**TGA**GCAGAATCAGTGTTTGGGTCACCCCTCCAGGAATGATCTCTTCTTTTG
GCTTCCATGATGGTTATTTTCTTTTCTTTCAACTTGCATCCAACTCCAGGATAGTGGGCACCCCACTGCAATCCT
GTCTTTCTGAGCACACTTTAGTGGCCGATGATTTTTGTCATCAGCCACCATCCTATTGCAAAGGTTCCAACTGTA
TATATTCCCAATAGCAACGTAGCTTCTACCATGAACAGAAACATTCTGATTTGGAAAAAGAGAGGGAGGTATGG
ACTGGGGGCCAGAGTCCTTTCCAAGGCTTCTCCAATTCTGCCCAAAAATATGGTTGATAGTTTACCTGAATAAAT
GGTAGTAATCACAGTTGGCCTTCAGAACCATCCATAGTAGTATGATGATACAAGATTAGAAGCTGAAAACCTAAG
TCCTTTATGTGGAAAACAGAACATCATTAGAACAAAGGACAGAGTATGAACACCTGGGCTTAAGAAATCTAGTAT
TTCATGCTGGGAATGAGACATAGGCCATGAAAAAAATGATCCCCAAGTGTGAACAAAAGATGCTCTTCTGTGGAC
CACTGCATGAGCTTTTATACTACCGACCTGGTTTTTAAATAGAGTTTGCTATTAGAGCATTGAATTGGAGAGAAG

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FIGURE 1963B

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GCCTCCCTAGCCAGCACTTGTATATACGCATCTATAAATTGTCCGTGTTCATACATTTGAGGGGAAAACACCATA
AGGTTTCGTTTCTGTATACAACCCTGGCATTATGTCCACTGTGTATAGAAGTAGATTAAGAGCCATATAAGTTTG
AAGGAAACAGTTAATACCATTTTTTAAGGAAACAATATAACCACAAAGCACAGTTTGAACAAAATCTCCTCTTTT
AGCTGATGAACTTATTCTGTAGATTCTGTGGAACAAGCCTATCAGCTTCAGAATGGCATTGTACTCAATGGATTT
GATGCTGTTTGACAAAGTTACTGATTCACTGCATGGCTCCCACAGGAGTGGGAAAACACTGCCATCTTAGTTTGG
ATTCTTATGTAGCAGGAAATAAAGTATAGGTTTAGCCTCCTTCGCAGGCATGTCCTGGACACCGGGCCAGTATCT
ATATATGTGTATGTACGTTTGTATGTGTGTAGACAAATATTTGGAGGGGTATTTTTGCCCTGAGTCCAAGAGGGT
CCTTTAGTACCTGAAAAGTAACTTGGCTTTCATTATTAGTACTGCTCTTGTTTCTTTTCACATAGCTGTCTAGAG
TAGCTTACCAGAAGCTTCCATAGTGGTGCAGAGGAAGTGGAAGGCATCAGTCCCTATGTATTTGCAGTTCACCTG
CACTTAAGGCACTCTGTTATTTAGACTCATCTTACTGTACCTGTTCCTTAGACCTTCCATAATGCTACTGTCTCA
CTGAAACATTTAAATTTTACCCTTTAGACTGTAGCCTGGATATTATTCTTGTAGTTTACCTCTTTAAAAACAAAA
CAAAACAAAACAAAAAACTCCCCTTCCTCACTGCCCAATATAAAAGGCAAATGTGTACATGGCAGAGTTTGTGTG
TTGTCTTGAAAGATTCAGGTATGTTGCCTTTATGGTTTCCCCCTTCTACATTTCTTAGACTACATTTAGAGAACT
GTGGCCGTTATCTGGAAGTAACCATTTGCACTGGAGTTCTATGCTCTCGCACCTTTCCAAAGTTAACAGATTTTG
GGGTTGTGTTGTCACCCAAGAGATTGTTGTTTGCCATACTTTGTCTGAAAAATTCCTTTGTGTTTCTATTGACTT
CAATGATAGTAAGAAAAGTGGTTGTTAGTTATAGATGTCTAGGTACTTCAGGGGCACTTCATTGAGAGTTTTGTC
TTGCCATACTTTGTCTGAAAAATTCCTTTGTGTTTCTATTGACTTCAATGATAGTAAGAAAAGTGGTTGTTAGTT
ATAGATGTCTAGGTACTTCAGGGGCACTTCATTGAGAGTTTTGTCAATGTCTTTTGAATATTCCCAAGCCCATGA
GTCCTTGAAAATATTTTTTATATATACAGTAACTTTATGTGTAAATACATAAGCGGCGTAAGTTTAAAGGATGTT
GGTGTTCCACGTGTTTTATTCCTGTATGTTGTCCAATTGTTGACAGTTCTGAAGAATTC
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FIGURE 1964

MRGARGAWDFLCVLLLLLRVQTGSSQPSVSPGEPSPPSIHPGKSDLIVRVGDEIRLLCTDPGFVKWTFEILDETN
ENKQNEWITEKAEATNTGKYTCTNKHGLSNSIYVFVRDPAKLFLVDRSLYGKEDNDTLVRCPLTDPEVTNYSLKG
CQGKPLPKDLRFIPDPKAGIMIKSVKRAYHRLCLHCSVDQEGKSVLSEKFILKVRPAFKAVPVVSVSKASYLLRE
GEEFTVTCTIKDVSSSVYSTWKRENSQTKLQEKYNSWHHGDFNYERQATLTISSARVNDSGVFMCYANNTFGSAN
VTTTLEVVDKGFINIFPMINTTVFVNDGENVDLIVEYEAFPKPEHQQWIYMNRTFTDKWEDYPKSENESNIRYVS
ELHLTRLKGTEGGTYTFLVSNSDVNAAIAFNVYVNTKPEILTYDRLVNGMLQCVAAGFPEPTIDWYFCPGTEQRC
SASVLPVDVQTLNSSGPPFGKLVVQSSIDSSAFKHNGTVECKAYNDVGKTSAYFNFAFKGNNKEQIHPHTLFTPL
LIGFVIVAGMMCIIVMILTYKYLQKPMYEVQWKVVEEINGNNYVYIDPTQLPYDHKWEFPRNRLSFGKTLGAGAF
GKVVEATAYGLIKSDAAMTVAVKMLKPSAHLTEREALMSELKVLSYLGNHMNIVNLLGACTIGGPTLVITEYCCY
GDLLNFLRRKRDSFICSKQEDHAEAALYKNLLHSKESSCSDSTNEYMDMKPGVSYVVPTKADKRRSVRIGSYIER
DVTPAIMEDDELALDLEDLLSFSYQVAKGMAFLASKNCIHRDLAARNILLTHGRITKICDFGLARDIKNDSNYVV
KGNARLPVKWMAPESIFNCVYTFESDVWSYGIFLWELFSLGSSPYPGMPVDSKFYKMIKEGFRMLSPEHAPAEMY
DIMKTCWDADPLKRPTFKQIVQLIEKQISESTNHIYSNLANCSPNRQKPVVDHSVRINSVGSTASSSQPLLVHDD
V

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FIGURE 1965

AACAACATCCTGGGATTGGGACCCACTTTCTGGGCACTGCTGGCCAGTCCCAAA**ATG**GAACATAAGGAAGTGGTT
CTTCTACTTCTTTTATTTCTGAAATCAGGTCAAGGAGAGCCTCTGGATGACTATGTGAATACCCAGGGGGGCTTCA
CTGTTCAGTGTCACTAAGAAGCAGCTGGGAGCAGGAAGTATAGAAGAATGTGCAGCAAAATGTGAGGAGGACGAA
GAATTCACCTGCAGGGCATTCCAATATCACAGTAAAGAGCAACAATGTGTGATAATGGCTGAAAACAGGAAGTCC
TCCATAATCATTAGGATGAGAGATGTAGTTTTATTTGAAAAGAAAGTGTATCTCTCAGAGTGCAAGACTGGGAAT
GGAAAGAACTACAGAGGGACGATGTCCAAAACAAAAAATGGCATCACCTGTCAAAAATGGAGTTCCACTTCTCCC
CACAGACCTAGATTCTCACCTGCTACACACCCCTCAGAGGGACTGGAGGAGAACTACTGCAGGAATCCAGACAAC
GATCCGCAGGGGCCCTGGTGCTATACTACTGATCCAGAAAAGAGATATGACTACTGCGACATTCTTGAGTGTGAA
GAGGAATGTATGCATTGCAGTGGAGAAAACTATGACGGCAAAATTTCCAAGACCATGTCTGGACTGGAATGCCAG
GCCTGGGACTCTCAGAGCCCACACGCTCATGGATACATTCCTTCCAAATTTCCAAACAAGAACCTGAAGAAGAAT
TACTGTCGTAACCCCGATAGGGAGCTGCGGCCTTGGTGTTTCACCACCGACCCCAACAAGCGCTGGGAACTTTGC
GACATCCCCCGCTGCACAACACCTCCACCATCTTCTGGTCCCACCTACCAGTGTCTGAAGGGAACAGGTGAAAAC
TATCGCGGGAATGTGGCTGTTACCGTTTCCGGGCACACCTGTCAGCACTGGAGTGCACAGACCCCTCACACACAT
AACAGGACACCAGAAAACTTCCCCTGCAAAAATTTGGATGAAAACTACTGCCGCAATCCTGACGGAAAAAGGGCC
CCATGGTGCCATACAACCAACAGCCAAGTGCGGTGGGAGTACTGTAAGATACCGTCCTGTGACTCCTCCCCAGTA
TCCACGGAACAATTGGCTCCCACAGCACCACCTGAGCTAACCCCTGTGGTCCAGGACTGCTACCATGGTGATGGA
CAGAGCTACCGAGGCACATCCTCCACCACCACCACAGGAAAGAAGTGTCAGTCTTGGTCATCTATGACACCACAC
CGGCACCAGAAGACCCCAGAAAACTACCCAAATGCTGGCCTGACAATGAACTACTGCAGGAATCCAGATGCCGAT
AAAGGCCCCTGGTGTTTTACCACAGACCCCAGCGTCAGGTGGGAGTACTGCAACCTGAAAAAATGCTCAGGAACA
GAAGCGAGTGTTGTAGCACCTCCGCCTGTTGTCCTGCTTCCAGATGTAGAGACTCCTTCCGAAGAAGACTGTATG
TTTGGGAATGGGAAAGGATACCGAGGCAAGAGGGCGACCACTGTTACTGGGACGCCATGCCAGGACTGGGCTGCC
CAGGAGCCCCATAGACACAGCATTTTTCACTCCAGAGACAAATCCACGGGCGGGTCTGGAAAAAAATTACTGCCGT
AACCCTGATGGTGATGTAGGTGGTCCCTGGTGCTACACGACAAATCCAAGAAAACTTTACGACTACTGTGATGTC
CCTCAGTGTGCGGCCCCTTCATTTGATTGTGGGAAGCCTCAAGTGGAGCCGAAGAAATGTCCTGGAAGGGTTGTG
GGGGGGTGTGTGGCCCACCCACATTCCTGGCCCTGGCAAGTCAGTCTTAGAACAAGGTTTGGAATGCACTTCTGT
GGAGGCACCTTGATATCCCCAGAGTGGGTGTTGACTGCTGCCCACTGCTTGGAGAAGTCCCCAAGGCCTTCATCC
TACAAGGTCATCCTGGGTGCACACCAAGAAGTGAATCTCGAACCGCATGTTCAGGAAATAGAAGTGTCTAGGCTG
TTCTTGGAGCCCACACGAAAAGATATTGCCTTGCTAAAGCTAAGCAGTCCTGCCGTCATCACTGACAAAGTAATC
CCAGCTTGTCTGCCATCCCCAAATTATGTGGTCGCTGACCGGACCGAATGTTTCATCACTGGCTGGGGAGAAACC
CAAGGTACTTTTGGAGCTGGCCTTCTCAAGGAAGCCCAGCTCCCTGTGATTGAGAATAAAGTGTGCAATCGCTAT
GAGTTTCTGAATGGAAGAGTCCAATCCACCGAACTCTGTGCTGGGCATTTGGCCGGAGGCACTGACAGTTGCCAG
GGTGACAGTGGAGGTCCTCTGGTTTGCTTCGAGAAGGACAAATACATTTTACAAGGAGTCACTTCTTGGGGTCTT
GGCTGTGCACGCCCCAATAAGCCTGGTGTCTATGTTCGTGTTTCAAGGTTTGTTACTTGGATTGAGGGAGTGATG
AGAAATAAT**TAA**TTGGACGGGAGACAGAGTGACGCACTGACTCACCTAGAGGCTGGGACGTGGGTAGGGATTTAG
CATGCTGGAAATAACTGGCAGTAATCAAACGAAGCACTGTCCCCAGCTACCAGCTACGCCAAACCTCGGCATTT
TTTGTGTTATTTTCTGACTGCTGGATTCTGTAGTAAGGTGACATAGCTATGACATTTGTTAAAAATAAACTCTGT
ACTTAACTTTGATTTGAGTAAATTTTGGTTTT

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FIGURE 1966

MEHKEVVLLLLLFLKSGQGEPLDDYVNTQGASLFSVTKKQLGAGSIEECAAKCEEDEEFTCRAFQYHSKEQQCVI
MAENRKSSIIIRMRDVVLFEKKVYLSECKTGNGKNYRGTMSKTKNGITCQKWSSTSPHRPRFSPATHPSEGLEEN
YCRNPDNDPQGPWCYTTDPEKRYDYCDILECEEECMHCSGENYDGKISKTMSGLECQAWDSQSPHAHGYIPSKFP
NKNLKKNYCRNPDRELRPWCFTTDPNKRWELCDIPRCTTPPPSSGPTYQCLKGTGENYRGNVAVTVSGHTCQHWS
AQTPHTHNRTPENFPCKNLDENYCRNPDGKRAPWCHTTNSQVRWEYCKIPSCDSSPVSTEQLAPTAPPELTPVVQ
DCYHGDGQSYRGTSSTTTTGKKCQSWSSMTPHRHQKTPENYPNAGLTMNYCRNPDADKGPWCFTTDPSVRWEYCN
LKKCSGTEASVVAPPPVVLLPDVETPSEEDCMFGNGKGYRGKRATTVTGTPCQDWAAQEPHRHSIFTPETNPRAG
LEKNYCRNPDGDVGGPWCYTTNPRKLYDYCDVPQCAAPSFDCGKPQVEPKKCPGRVVGGCVAHPHSWPWQVSLRT
RFGMHFCGGTLISPEWVLTAAHCLEKSPRPSSYKVILGAHQEVNLEPHVQEIEVSRLFLEPTRKDIALLKLSSPA
VITDKVIPACLPSPNYVVADRTECFITGWGETQGTFGAGLLKEAQLPVIENKVCNRYEFLNGRVQSTELCAGHLA
GGTDSCQGDSGGPLVCFEKDKYILQGVTSWGLGCARPNKPGVYVRVSRFVTWIEGVMRNN

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FIGURE 1967

CGGCGCCGCGAGCTTCTCCTCTCCTCACGACCGAGGCAGAGCAGTCATT**ATG**GCGAACCTTGGCTGCTGGATGCT
GGTTCTCTTTGTGGCCACATGGAGTGACCTGGGCCTCTGCAAGAAGCGCCCGAAGCCTGGAGGATGGAACACTGG
GGGCAGCCGATACCCGGGGCAGGGCAGCCCTGGAGGCAACCGCTACCCACCTCAGGGCGGTGGTGGCTGGGGGCA
GCCTCATGGTGGTGGCTGGGGGCAGCCTCATGGTGGTGGCTGGGGGCAGCCCCATGGTGGTGGCTGGGGACAGCC
TCATGGTGGTGGCTGGGGTCAAGGAGGTGGCACCCACAGTCAGTGGAACAAGCCGAGTAAGCCAAAAACCAACAT
GAAGCACATGGCTGGTGCTGCAGCAGCTGGGGCAGTGGTGGGGGGCCTTGGCGGCTACATGCTGGGAAGTGCCAT
GAGCAGGCCCATCATACATTTCGGCAGTGACTATGAGGACCGTTACTATCGTGAAAACATGCACCGTTACCCCAA
CCAAGTGTACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACTTTGTGCACGACTGCGTCAATATCACAAT
CAAGCAGCACACGGTCACCACAACCACCAAGGGGGAGAACTTCACCGAGACCGACGTTAAGATGATGGAGCGCGT
GGTTGAGCAGATGTGTATCACCCAGTACGAGAGGGAATCTCAGGCCTATTACCAGAGAGGATCGAGCATGGTCCT
CTTCTCCTCTCCACCTGTGATCCTCCTGATCTCTTTCCTCATCTTCCTGATAGTGGGA**TGA**GGAAGGTCTTCCTG
TTTTCACCATCTTTCTAATCTTTTTCCAGCTTGAGGGAGGCGGTATCCACCTGCAGCCCTTTTAGTGGTGGTGTC
TCACTCTTTCTTCTCTCTTTGTCCCGGATAGGCTAATCAATACCCTTGGCACTGATGGGCACTGGAAAACATAGA
GTAGACCTGAGATGCTGGTCAAGCCCCCTTTGATTGAGTTCATCATGAGCCGTTGCTAATGCCAGGCCAGTAAAA
GTATAACAGCAAATAACCATTGGTTAATCTGGACTTATTTTTGGACTTAGTGCAACAGGTTGAGGCTAAAACAAA
TCTCAGAACAGTCTGAAATACCTTTGCCTGGATACCTCTGGCTCCTTCAGCAGCTAGAGCTCAGTATACTAATGC
CCTATCTTAGTAGAGATTTCATAGCTATTTAGAGATATTTTCCATTTTAAGAAAACCCGACAACATTTCTGCCAG
GTTTGTTAGGAGGCCACATGATACTTATTCAAAAAAATCCTAGAGATTCTTAGCTCTTGGGATGCAGGCTCAGCC
CGCTGGAGCATGAGCTCTGTGTGTACCGAGAACTGGGGTGATGTTTTACTTTTCACAGTATGGGCTACACAGCAG
CTGTTCAACAAGAGTAAATATTGTCACAACACTGAACCTCTGGCTAGAGGACATATTCACAGTGAACATAACTGT
AACATATATGAAAGGCTTCTGGGACTTGAAATCAAATGTTTGGGAATGGTGCCCTTGGAGGCAACCTCCCATTTT
AGATGTTTAAAGGACCCTATATGTGGCATTCCTTTCTTTAAACTATAGGTAATTAAGGCAGCTGAAAAGTAAATT
GCCTTCTAGACACTGAAGGCAAATCTCCTTTGTCCATTTACCTGGAAACCAGAATGATTTTGACATACAGGAGAG
CTGCAGTTGTGAAAGCACCATCATCATAGAGGATGATGTAATTAAAAAAATGGTCAGTGTGCAAAGAAAAGAACTG
CTTGCATTTCTTTATTTCTGTCTCATAATTGTCAAAAACCAGAATTAGGTCAAGTTCATAGTTTCTGTAATTGGC
TTTTGAATCAAAGAATAGGGAGACAATCTAAAAAATATCTTAGGTTGGAGATGACAGAAATATGATTGATTTGAA
GTGGAAAAAGAAATTCTGTTAATGTTAATTAAAGTAAAATTATTCCCTGAATTGTTTGATATTGTCACCTAGCAG
ATATGTATTACTTTTCTGCAATGTTATTATTGGCTTGCACTTTGTGAGTATCTATGTAAAAATATATATGTATAT
AAAATATATATTGCATAGGACAGACTTAGGAGTTTTGTTTAGAGCAGTTAACATCTGAAGTGTCTAATGCATTAA
CTTTTGTAAGGTACTGAATACTTAATATGTGGGAAACCCTTTTGCGTGGTCCTTAGGCTTACAATGTGCACTGAA
TCGTTTCATGTAAGAATCCAAAGTGGACACCATTAACAGGTCTTTGAAATATGCATGTACTTTATATTTTCTATA
TTTGTAACTTTGCATGTTCTTGTTTTGTTATATAAAAAAATTGTAAATGTTTAATATCTGACTGAAATTAAACGA
GCGAAGATGAGCACC

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FIGURE 1968

MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGGWGQPHGGGWGQPHGGGWGQ
PHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKTNMKHMAGAAAAGAVVGGLGGYMLGSAMSRPIIHFGSDYEDRYY
RENMHRYPNQVYYRPMDEYSNQNNFVHDCVNITIKQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAY
YQRGSSMVLFSSPPVILLISFLIFLIVG

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FIGURE 1969

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CCACGCGTCCGCGGACGCGTGGGCGAGAAGTGCTTCCAAGCGTCCATTTTGAGCCTTGGAAACTACGACGACCAA
AGGGCCACGGGTTCCTGGGTCGTTTCTCATTTCCGTCGAGTTAAACGTCTGGGGCTGCTTCTGAGGAATCAGCTT
GGCTGGCCAGCAAGTTCAGCTCCGGCAAGTCATTTGATTCACCCGGTGATGAAATGGGGGTCAACCAGTCTGTGG
GCTTTCCACCTGTCACAGGACCCCACCTCGTAGGCTGTGGGGATGTGATGGAGGGTCAGAATCTCCAGGGGAGCT
TCTTTCGACTCTTCTACCCCTGCCAAAAGGCAGAGGAGACCATGGAGCAGCCCCTGTGGATTCCCCGCTATGAGT
ACTGCACTGGCCTGGCCGAGTACCTGCAGTTTAATAAGCGCTGCGGGGGCTTGCTGTTCAACCTGGCGGTGGGAT
CTTGTCGCCTGCCTGTTAGCTGGAATGGCCCCTTTAAGACAAAGGACTCTGGATACCCCTTGATCATCTTCTCCC
ATGGCCTAGGAGCCTTCAGGACTTTGTATTCAGCCTTCTGCATGGAGCTGGCCTCACGTGGCTTTGTGGTTGCTG
TGCCAGAGCACAGGGACCGGTCAGCGGCAACCACCTATTTCTGCAAGCAGGCCCCAGAAGAGAACCAGCCCACCA
ATGAATCGCTGCAGGAGGAATGGATCCCTTTCCGTCGAGTTGAGGAAGGGGAGAAGGAATTTCATGTTCGGAATC
CCCAGGTGCATCAGCGGGTAAGCGAGTGTTTACGGGTGTTGAAGATCCTGCAAGAGGTCACTGCTGGGCAGACTG
TCTTCAACATCTTGCCTGGTGGCTTGGATCTGATGACTTTGAAGGGCAACATTGACATGAGCCGTGTGGCTGTGA
TGGGACATTCATTTGGAGGGGCCACAGCTATTCTGGCTTTGGCCAAGGAGACCCAATTTCGGTGTGCGGTGGCTC
TGGATGCTTGGATGTTTCCTCTGGAACGTGACTTTTACCCCAAGGCCCGAGGACCTGTGTTCTTTATCAATACTG
AGAAATTCCAGACAATGGAGAGTGTCAATTTGATGAAGAAGATATGTGCCCAGCATGAACAGTCTAGGATCATAA
CCGTTCTTGGTTCTGTTCATCGGAGTCAAACTGACTTTGCTTTTGTGACTGGCAACTTGATTGGTAAATTCTTCT
CCACTGAAACCCGTGGGAGCCTGGACCCCTATGAAGGGCAGGAGGTTATGGTACGGGCCATGTTGGCCTTCCTGC
AGAAGCACCTCGACCTGAAAGAAGACTATAATCAATGGAACAACCTTATTGAAGGCATTGGACCGTCGCTCACCC
CAGGGGCCCCCCACCATCTGTCCAGCCTGTAGGCACAACTGGCCATTTGTAAAGTCACTTCAGCCAAGTTTTCAT
TTGGGAGCTACCCAAGGGCACCCATGAGCTCCTATCAAGAAGTGATCAACGTGACCCCTTTTCACAGATTGAAAG
GTGTAATCACACTGCTGCTTGGATAACTGGGTACTTTGATCTTAGATTTGATCTTAAAATCACTTTGGGACTGGG
ATCCCTTGCTGATTGACAAACAGACTTTCTGGGACCTTGATGGAGTGGGGAACAAGCAGTAGAGTGGGACTGGGG
GAGACCCAGGCCCCGGGCTGAGCACTGTGAGGCCTGGATGTGAAGACTCAGCCCAGCGAAGCTCATTCCCTTACC
CCCGGCCAGTGCTGCTGCTTCAGTGGAAGAGATGAAGCCAAAGGACAGAATGAAAATCCCTACCTTCAGAGACTC
TAGCCCAGCCCAACACCATCTCTTCCTACCTCTCAGCCTTCTCCCTCCCCAGGGCCACTTGTTGAAGTCTGAGCA
CTTTATGTAAATTTCTAGGTGTGAGCCGTGATCACATTTTCTATTTATTTCCAAGTCTTCTCATTGTATGGAACA
TAGTACTACTTATACTTACAGTAGTAAGTTATACTTGTGAGCCCACAGAGTGGCAGACAGCATGGCTCTCACAGC
ACAGGGAGAAAAACTGAGGTACACAGAGGTACCTCAGAAGCTCTGGATGTCTTTGGGGGTTTTGCTAAGTGTATC
TTGATAGGAAACAACAAAGCAGGTTGAGATGGGGAAGATGACAGAACAACAGTGTTAAATGGCCATTTGCACAG
GCCTTTGCCACAACAGAGAAGTAGTTTGGTCAGCTAAAACTCAGCTGCAGCCTGGACAGTAGAGCGAGACCCCAT
CTTAAAAATAAAGAAGGCTGGGCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGA
TCACTTAAGGCCAGGAGTTCAAGACCACCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATT
AGCCTGGCGTAATGGCAGGCGCCTATAATCCCAGCTACTCAGGAGGCTGAAGCAGAAGAATCACTTGAACCTAGG
AGGCGGAGGTTGCAGTGAGTCAAGATCGCGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTT
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FIGURE 1970

MGVNQSVGFPPVTGPHLVGCGDVMEGQNLQGSFFRLFYPCQKAEETMEQPLWIPRYEYCTGLAEYLQFNKRCGGL
LFNLAVGSCRLPVSWNGPFKTKDSGYPLIIFSHGLGAFRTLYSAFCMELASRGFVVAVPEHRDRSAATTYFCKQA
PEENQPTNESLQEEWIPFRRVEEGEKEFHVRNPQVHQRVSECLRVLKILQEVTAGQTVFNILPGGLDLMTLKGNI
DMSRVAVMGHSFGGATAILALAKETQFRCAVALDAWMFPLERDFYPKARGPVFFINTEKFQTMESVNLMKKICAQ
HEQSRIITVLGSVHRSQTDFAFVTGNLIGKFFSTETRGSLDPYEGQEVMVRAMLAFLQKHLDLKEDYNQWNNLIE
GIGPSLTPGAPHHLSSL

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FIGURE 1971

TTTCCAGCCATGGCTGCCATTACCTGACCAGCGCCACAGCCGGTCTCTCTGCAGGCGCCGGGAGAAGTGACCAGA
GCAATTTCTGCTTTTCACAGGGCGGGTTTCTCAACGGTGACTTGTGGGCAGTGCCTTCTGCTGAGCGAGTCATGG
CCCGAAGGCAGAACTAACTGTGCCTGCAGTCTTCACTCTCAGG**ATG**CAGCCGAGGTGGGCCCAAGGGGCCACGAT
GTGGCTTGGAGTCCTGCTGACCCTTCTGCTCTGTTCAAGCCTTGAGGGTCAAGAAAACTCTTTCACAATCAACAG
TGTTGACATGAAGAGCCTGCCGGACTGGACGGTGCAAAATGGGAAGAACCTGACCCTGCAGTGCTTCGCGGATGT
CAGCACCACCTCTCACGTCAAGCCTCAGCACCAGATGCTGTTCTATAAGGATGACGTGCTGTTTTACAACATCTC
CTCCATGAAGAGCACAGAGAGTTATTTTATTCCTGAAGTCCGGATCTATGACTCAGGGACATATAAATGTACTGT
GATTGTGAACAACAAAGAGAAAACCACTGCAGAGTACCAGGTGTTGGTGGAAGGAGTGCCCAGTCCCAGGGTGAC
ACTGGACAAGAAAGAGGCCATCCAAGGTGGGATCGTGAGGGTCAACTGTTCTGTCCCAGAGGAAAAGGCCCCAAT
ACACTTCACAATTGAAAAACTTGAACTAAATGAAAAAATGGTCAAGCTGAAAAGAGAGAAGAATTCTCGAGACCA
GAATTTTGTGATACTGGAATTCCCCGTTGAGGAACAGGACCGCGTTTTATCCTTCCGATGTCAAGCTAGGATCAT
TTCTGGGATCCATATGCAGACCTCAGAATCTACCAAGAGTGAACTGGTCACCGTGACGGAATCCTTCTCTACACC
CAAGTTCCACATCAGCCCCACCGGAATGATCATGGAAGGAGCTCAGCTCCACATTAAGTGCACCATTCAAGTGAC
TCACCTGGCCCAGGAGTTTCCAGAAATCATAATTCAGAAGGACAAGGCGATTGTGGCCCACAACAGACATGGCAA
CAAGGCTGTGTACTCAGTCATGGCCATGGTGGAGCACAGTGGCAACTACACGTGCAAAGTGGAGTCCAGCCGCAT
ATCCAAGGTCAGCAGCATCGTGGTCAACATAACAGAACTATTTTCCAAGCCCGAACTGGAATCTTCCTTCACACA
TCTGGACCAAGGTGAAAGACTGAACCTGTCCTGCTCCATCCCAGGAGCACCTCCAGCCAACTTCACCATCCAGAA
GGAAGATACGATTGTGTCACAGACTCAAGATTTCACCAAGATAGCCTCAAAGTCGGACAGTGGGACGTATATCTG
CACTGCAGGTATTGACAAAGTGGTCAAGAAAAGCAACACAGTCCAGATAGTCGTATGTGAAATGCTCTCCCAGCC
CAGGATTTCTTATGATGCCCAGTTTGAGGTCATAAAAGGACAGACCATCGAAGTCCGTTGCGAATCGATCAGTGG
AACTTTGCCTATTTCTTACCAACTTTTAAAAACAAGTAAAGTTTTGGAGAATAGTACCAAGAACTCAAATGATCC
TGCGGTATTCAAAGACAACCCCACTGAAGACGTCGAATACCAGTGTGTTGCAGATAATTGCCATTCCCACGCCAA
AATGTTAAGTGAGGTTCTGAGGGTGAAGGTGATAGCCCCGGTGGATGAGGTCCAGATTTCTATCCTGTCAAGTAA
GGTGGTGGAGTCTGGAGAGGACATTGTGCTGCAATGTGCTGTGAATGAAGGATCTGGTCCCATCACCTATAAGTT
TTACAGAGAAAAAGAGGGCAAACCCTTCTATCAAATGACCTCAAATGCCACCCAGGCATTTTGGACCAAGCAGAA
GGCTAACAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTTCAACAGAGCCAACCACGCCTCCAGTGTCCCCAG
AAGCAAAATACTGACAGTCAGAGTCATTCTTGCCCCATGGAAGAAAGGACTTATTGCAGTGGTTATCATCGGAGT
GATCATTGCTCTCTTGATCATTGCGGCCAAATGTTATTTTCTGAGGAAAGCCAAGGCCAAGCAGATGCCAGTGGA
AATGTCCAGGCCAGCAGTACCACTTCTGAACTCCAACAACGAGAAAATGTCAGATCCCAATATGGAAGCTAACAG
TCATTACGGTCACAATGACGATGTCGGAAACCATGCAATGAAACCAATAAATGATAATAAAGAGCCTCTGAACTC
AGACGTGCAGTACACGGAAGTTCAAGTGTCCTCAGCTGAGTCTCACAAAGATCTAGGAAAGAAGGACACAGAGAC
AGTGTACAGTGAAGTCCGGAAAGCTGTCCCTGATGCCGTGGAAAGCAGATACTCTAGAACGGAAGGCTCCCTTGA
TGGAACT**TAG**ACAGCAAGGCCAGATGCACATCCCTGGAAGGACATCCATGTTCCGAGAAGAACAGATGATCCCTG
TATTTCAAGACCTCTGTGCACTTATTTATGAACCTGCCCTGCTCCCACAGAACACAGCAATTCCTCAGGCTAAGC
TGCCGGTTCTTAAATCCATCCTGCTAAGTTAATGTTGGGTAGAAAGAGATACAGAGGGGCTGTTGAATTTCCCAC
ATACACTCCTTCCACCAAGTTGGAACATCCTTGGAAATTGGAAGAGCACAAGAGGAGATĊCAGGGCAAGGCCATT
GGGATATTCTGAAACTTGAATATTTTGTTTTGTGCAGAGATAAAGACCTTTTCCATGCACCCTCATACACAGAAA
CCAATTTTCTTTTTTATACTCAATCATTTCTAGCGCATGGCCTGGTTAGAGGCTGGTTTTTTCTCTTTTCCTTTG
GTCCTTCAAAGGCTTGTAGTTTTGGGTAGTCCTTGTTCTTTGGAAATACACAGTGCTGACCAGACAGCCTCCCCC
TGTCCCCTCTATGACCTCGCCCTCCACAAATGGGAAAACCAGACTACTTGGGAGCACCGCCTGTGAAATACCAAC
CTGAAGACACGGTTCATTCAGGCAACGCACAAAACAGAAAATGAAGGTGGAACAAGCACAGATGTTCTTCAACTG
TTTTTGTCTACACTCTTTCTCTTTTCCTCTACCATGCTGAAGGCTGAAAGACAGGAAGATGGTGCCATCAGCAAA
TATTATTCTTAATTGAAAACTTGAAAAAAAAAAAAAAAAA

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FIGURE 1972

MQPRWAQGATMWLGVLLTLLLCSSLEGQENSFTINSVDMKSLPDWTVQNGKNLTLQCFADVSTTSHVKPQHQMLF
YKDDVLFYNISSMKSTESYFIPEVRIYDSGTYKCTVIVNNKEKTTAEYQVLVEGVPSPRVTLDKKEAIQGGIVRV
NCSVPEEKAPIHFTIEKLELNEKMVKLKREKNSRDQNFVILEFPVEEQDRVLSFRCQARIISGIHMQTSESTKSE
LVTVTESFSTPKFHISPTGMIMEGAQLHIKCTIQVTHLAQEFPEIIIQKDKAIVAHNRHGNKAVYSVMAMVEHSG
NYTCKVESSRISKVSSIVVNITELFSKPELESSFTHLDQGERLNLSCSIPGAPPANFTIQKEDTIVSQTQDFTKI
ASKSDSGTYICTAGIDKVVKKSNTVQIVVCEMLSQPRISYDAQFEVIKGQTIEVRCESISGTLPISYQLLKTSKV
LENSTKNSNDPAVFKDNPTEDVEYQCVADNCHSHAKMLSEVLRVKVIAPVDEVQISILSSKVVESGEDIVLQCAV
NEGSGPITYKFYREKEGKPFYQMTSNATQAFWTKQKANKEQEGEYYCTAFNRANHASSVPRSKILTVRVILAPWK
KGLIAVVIIGVIIALLIIAAKCYFLRKAKAKQMPVEMSRPAVPLLNSNNEKMSDPNMEANSHYGHNDDVGNHAMK
PINDNKEPLNSDVQYTEVQVSSAESHKDLGKKDTETVYSEVRKAVPDAVESRYSRTEGSLDGT

FIGURE 1973

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AGCTTTTCTCTTCTGTCAACCCCACACGCCTTTGGCACAATGAAGTGGGTAACCTTTATTTCCCTTCTTTTTCTC
TTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTCGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAAGAT
TTGGGAGAAGAAAATTTCAAAGCCTTGGTGTTGATTGCCTTTGCTCAGTATCTTCAGCAGTGTCCATTTGAAGAT
CATGTAAAATTAGTGAATGAAGTAACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATTGTGAC
AAATCACTTCATACCCTTTTTGGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAACCTATGGTGAAATGGCT
GACTGCTGTGCAAAACAAGAACCTGAGAGAAATGAATGCTTCTTGCAACACAAAGATGACAACCCAAACCTCCCC
CGATTGGTGAGACCAGAGGTTGATGTGATGTGCACTGCTTTTCATGACAATGAAGAGACATTTTTGAAAAAATAC
TTATATGAAATTGCCAGAAGACATCCTTACTTTTATGCCCCGGAACTCCTTTTCTTTGCTAAAAGGTATAAAGCT
GCTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCTGTTGCCAAAGCTCGATGAACTTCGGGATGAA
GGGAAGGCTTCGTCTGCCAAACAGAGACTCAAGTGTGCCAGTCTCCAAAAATTTGGAGAAAGAGCTTTCAAAGCA
TGGGCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGCAGAAGTTTCCAAGTTAGTGACAGATCTT
ACCAAAGTCCACACGGAATGCTGCCATGGAGATCTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGTAT
ATCTGTGAAAATCAAGATTCGATCTCCAGTAAACTGAAGGAATGCTGTGAAAAAACCTCTGTTGGAAAAATCCCAC
TGCATTGCCGAAGTGGAAAATGATGAGATGCCTGCTGACTTGCCTTCATTAGCTGCTGATTTTGTTGAAAGTAAG
GATGTTTGCAAAAACTATGCTGAGGCAAAGGATGTCTTCCTGGGCATGTTTTTGTATGAATATGCAAGAAGGCAT
CCTGATTACTCTGTCGTGCTGCTGCTGAGACTTGCCAAGACATATGAAACCACTCTAGAGAAGTGCTGTGCCGCT
GCAGATCCTCATGAATGCTATGCCAAAGTGTTCGATGAATTTAAACCTCTTGTGGAAGAGCCTCAGAATTTAATC
AAACAAAATTGTGAGCTTTTTGAGCAGCTTGGAGAGTACAAATTCCAGAATGCGCTATTAGTTCGTTACACCAAG
AAAGTACCCCAAGTGTCAACTCCAACTCTTGTAGAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAAATGTTGT
AAACATCCTGAAGCAAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCCTGAACCAGTTATGTGTGTTG
CATGAGAAAACGCCAGTAAGTGACAGAGTCACCAAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTT
TCAGCTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTTAATGCTGAAACATTCACCTTCCATGCAGATATA
TGCACACTTTCTGAGAAGGAGAGACAAATCAAGAAACAAACTGCACTTGTTGAGCTCGTGAAACACAAGCCCAAG
GCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTCGCAGCTTTTGTAGAGAAGTGCTGCAAGGCTGACGAT
AAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAACTTGTTGCTGCAAGTCAAGCTGCCTTAGGCTTATAACATCTA
CATTTAAAAGCATCTCAGCCTACCATGAGAATAAGAGAAAGAAAATGAAGATCAAAAGCTTATTCATCTGTTTTC
TTTTTCGTTGGTGTAAAGCCAACACCCTGTCTAAAAAACATAAATTTCTTTAATCATTTTGCCTCTTTTCTCTGT
GCTTCAATTAATAAAAAATGGAAAGAATCTAATAGAGTGGTACAGCACTGTTATTTTTCAAAGATGTGTTGCTAT
CCTGAAAATTCTGTAGGTTCTGTGGAAGTTCCAGTGTTCTCTCTTATTCCACTTCGGTAGAGGATTTCTAGTTTC
TGTGGGCTAATTAAATAAATCACTAATACTCTTCTAAGTT
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FIGURE 1974

MKWVTFISLLFLFSSAYSRGVFRRDAHKSEVAHRFKDLGEENFKALVLIAFAQYLQQCPFEDHVKLVNEVTEFAK
TCVADESAENCDKSLHTLFGDKLCTVATLRETYGEMADCCAKQEPERNECFLQHKDDNPNLPRLVRPEVDVMCTA
FHDNEETFLKKYLYEIARRHPYFYAPELLFFAKRYKAAFTECCQAADKAACLLPKLDELRDEGKASSAKQRLKCA
SLQKFGERAFKAWAVARLSQRFPKAEFAEVSKLVTDLTKVHTECCHGDLLECADDRADLAKYICENQDSISSKLK
ECCEKPLLEKSHCIAEVENDEMPADLPSLAADFVESKDVCKNYAEAKDVFLGMFLYEYARRHPDYSVVLLLRLAK
TYETTLEKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQNCELFEQLGEYKFQNALLVRYTKKVPQVSTPTLVEV
SRNLGKVGSKCCKHPEAKRMPCAEDYLSVVLNQLCVLHEKTPVSDRVTKCCTESLVNRRPCFSALEVDETYVPKE
FNAETFTFHADICTLSEKERQIKKQTALVELVKHKPKATKEQLKAVMDDFAAFVEKCCKADDKETCFAEEGKKLV
AASQAALGL

FIGURE 1975

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GGCACGAGGGTGTGCGTGATGGAGAAAATTGGGCACCAGGGCTGCTCCCGAGATTCTCAGATCTGATTTCCACGC
TTGCTACCAAAATAGTCTGGGCAGGCCACTTTTGGAAGTAGGCGTTATCTAGTGAGCAGGCGGCCGCTTTCGATT
TCGCTTTCCCCTAAATGGCTGAGCTTCTCGCCAGCGCAGGATCAGCCTGTTCCTGGGACTTTCCGAGAGCCCCGC
CCTCGTTCCCTCCCCCAGCCGCCAGTAGGGGAGGACTCGGCGGTACCCGGAGCTTCAGGCCCCACCGGGGCGCGG
AGAGTCCCAGACCCGGCCGGGACCGGGACGGCGTCCGAGTGCCAATGGCTAGCTCTAGGTGTCCCGCTCCCCGCG
GGTGCCGCTGCCTCCCCGGAGCTTCTCTCGCATGGCTGGGGACAGTACTGCTACTTCTCGCCGACTGGGTGCTGC
TCCGGACCGCGCTGCCCCGCATATTCTCCCTGCTGGTGCCCACCGCGCTGCCACTGCTCCGGGTCTGGGCGGTGG
GCCTGAGCCGCTGGGCCGTGCTCTGGCTGGGGGCCTGCGGGGTCCTCAGGGCAACGGTTGGCTCCAAGAGCGAAA
ACGCAGGTGCCCAGGGCTGGCTGGCTGCTTTGAAGCCATTAGCTGCGGCACTGGGCTTGGCCCTGCCGGGACTTG
CCTTGTTCCGAGAGCTGATCTCATGGGGAGCCCCCGGGTCCGCGGATAGCACCAGGCTACTGCACTGGGGAAGTC
ACCCTACCGCCTTCGTTGTCAGTTATGCAGCGGCACTGCCCGCAGCAGCCCTGTGGCACAAACTCGGGAGCCTCT
GGGTGCCCGGCGGTCAGGGCGGCTCTGGAAACCCTGTGCGTCGGCTTCTAGGCTGCCTGGGCTCGGAGACGCGCC
GCCTCTCGCTGTTCCTGGTCCTGGTGGTCCTCTCCTCTCTTGGGGAGATGGCCATTCCATTCTTTACGGGCCGCC
TCACTGACTGGATTCTACAAGATGGCTCAGCCGATACCTTCACTCGAAACTTAACTCTCATGTCCATTCTCACCA
TAGCCAGTGCAGTGCTGGAGTTCGTGGGTGACGGGATCTATAACAACACCATGGGCCACGTGCACAGCCACTTGC
AGGGAGAGGTGTTTGGGGCTGTCCTGCGCCAGGAGACGGAGTTTTTCCAACAGAACCAGACAGGTAACATCATGT
CTCGGGTAACAGAGGACACGTCCACCCTGAGTGATTCTCTGAGTGAGAATCTGAGCTTATTTCTGTGGTACCTGG
TGCGAGGCCTATGTCTCTTGGGGATCATGCTCTGGGGATCAGTGTCCCTCACCATGGTCACCCTGATCACCCTGC
CTCTGCTTTTCCTTCTGCCCAAGAAGGTGGGAAAATGGTACCAGTTGCTGGAAGTGCAGGTGCGGGAATCTCTGG
CAAAGTCCAGCCAGGTGGCCATTGAGGCTCTGTCGGCCATGCCTACAGTTCGAAGCTTTGCCAACGAGGAGGGCG
AAGCCCAGAAGTTTAGGGAAAAGCTGCAAGAAATAAAGACACTCAACCAGAAGGAGGCTGTGGCCTATGCAGTCA
ACTCCTGGACCACTAGTATTTCAGGTATGCTGCTGAAAGTGGGAATCCTCTACATTGGTGGGCAGCTGGTGACCA
GTGGGGCTGTAAGCAGTGGGAACCTTGTCACATTTGTTCTCTACCAGATGCAGTTCACCCAGGCTGTGGAGGTAC
TGCTCTCCATCTACCCCAGAGTACAGAAGGCTGTGGGCTCCTCAGAGAAAATATTTGAGTACCTGGACCGCACCC
CTCGCTGCCCACCCAGTGGTCTGTTGACTCCCTTACACTTGGAGGGCCTTGTCCAGTTCCAAGATGTCTCCTTTG
CCTACCCAAACCGCCCAGATGTCTTAGTGCTACAGGGGCTGACATTCACCCTACGCCCTGGCGAGGTGACGGCGC
TGGTGGGACCCAATGGGTCTGGGAAGAGCACAGTGGCTGCCCTGCTGCAGAATCTGTACCAGCCCACCGGGGGAC
AGCTGCTGTTGGATGGGAAGCCCCTTCCCCAATATGAGCACCGCTACCTGCACAGGCAGGTGGCTGCAGTGGGAC
AAGAGCCACAGGTATTTGGAAGAAGTCTTCAAGAAAATATTGCCTATGGCCTGACCCAGAAGCCAACTATGGAGG
AAATCACAGCTGCTGCAGTAAAGTCTGGGGCCCATAGTTTCATCTCTGGACTCCCTCAGGGCTATGACACAGAGG
TAGACGAGGCTGGGAGCCAGCTGTCAGGGGGTCAGCGACAGGCAGTGGCGTTGGCCCGAGCATTGATCCGGAAAC
CGTGTGTACTTATCCTGGATGATGCCACCAGTGCCCTGGATGCAAACAGCCAGTTACAGGTGGAGCAGCTCCTGT
ACGAAAGCCCTGAGCGGTACTCCCGCTCAGTGCTTCTCATCACCCAGCACCTCAGCCTGGTGGAGCAGGCTGACC
ACATCCTCTTTCTGGAAGGAGGCGCTATCCGGGAGGGGGGAACCCACCAGCAGCTCATGGAGAAAAGGGGTGCT
ACTGGGCCATGGTGCAGGCTCCTGCAGATGCTCCAGAATGAAAGCCTTCTCAGACCTGCGCACTCCATCTCCCTC
CCTTTTCTTCTCTCTGTGGTGGAGAACCACAGCTGCAGAGTAGCAGCTGCCTCCAGGATGAGTTACTTGAAATTT
GCCTTGAGTGTGTTACCTCCTTTCCAAGCTCCTCGTGATAATGCAGACTTCCTGGAGTACAAACACAGGATTTGT
AATTCCTACTGTAACGGAGTTTAGAGCCAGGGCTGATGCTTTGGTGTGGCCAGCACTCTGAAACTGAGAAATGTT
CAGAATGTACGGAAAGATGATCAGCTATTTTCAACATAACTGAAGGCATATGCTGGCCCATAAACACCCTGTAGG
TTCTTGATATTTATAATAAAATTGGTGTTTTGT
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FIGURE 1976

MAELLASAGSACSWDFPRAPPSFPPPAASRGGLGGTRSFRPHRGAESPRPGRDRDGVRVPMASSRCPAPRGCRCL
PGASLAWLGTVLLLLADWVLLRTALPRIFSLLVPTALPLLRVWAVGLSRWAVLWLGACGVLRATVGSKSENAGAQ
GWLAALKPLAAALGLALPGLALFRELISWGAPGSADSTRLLHWGSHPTAFVVSYAAALPAAALWHKLGSLWVPGG
QGGSGNPVRRLLGCLGSETRRLSLFLVLVVLSSLGEMAIPFFTGRLTDWILQDGSADTFTRNLTLMSILTIASAV
LEFVGDGIYNNTMGHVHSHLQGEVFGAVLRQETEFFQQNQTGNIMSRVTEDTSTLSDSLSENLSLFLWYLVRGLC
LLGIMLWGSVSLTMVTLITLPLLFLLPKKVGKWYQLLEVQVRESLAKSSQVAIEALSAMPTVRSFANEEGEAQKF
REKLQEIKTLNQKEAVAYAVNSWTTSISGMLLKVGILYIGGQLVTSGAVSSGNLVTFVLYQMQFTQAVEVLLSIY
PRVQKAVGSSEKIFEYLDRTPRCPPSGLLTPLHLEGLVQFQDVSFAYPNRPDVLVLQGLTFTLRPGEVTALVGPN
GSGKSTVAALLQNLYQPTGGQLLLDGKPLPQYEHRYLHRQVAAVGQEPQVFGRSLQENIAYGLTQKPTMEEITAA
AVKSGAHSFISGLPQGYDTEVDEAGSQLSGGQRQAVALARALIRKPCVLILDDATSALDANSQLQVEQLLYESPE
RYSRSVLLITQHLSLVEQADHILFLEGGAIREGGTHQQLMEKKGCYWAMVQAPADAPE

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FIGURE 1977

CAGGGGACAGGCTGCAGCCGGTGCAGTTACACGTTTTCCTCCAAGGAGCCTCGGACGTTGTCACGGGTTTGGGGT
CGGGGACAGAGCAGTGACC**ATG**GCCAGGCTGGCGTTGTCTCCTGTGCCCAGCCACTGGATGGTGGCGTTGCTGCT
GCTGCTCTCAGCTGAGCCAGTACCAGCAGCCAGATCGGAGGACCGGTACCGGAATCCCAAAGGTAGTGCTTGTTC
GCGGATCTGGCAGAGCCCACGTTTCATAGCCAGGAAACGGGGCTTCACGGTGAAAATGCACTGCTACATGAACAG
CGCCTCCGGCAATGTGAGCTGGCTCTGGAAGCAGGAGATGGACGAGAATCCCCAGCAGCTGAAGCTGGAAAAGGG
CCGCATGGAAGAGTCCCAGAACGAATCTCTCGCCACCCTCACCATCCAAGGCATCCGGTTTGAGGACAATGGCAT
CTACTTCTGTCAGCAGAAGTGCAACAACACCTCGGAGGTCTACCAGGGCTGCGGCACAGAGCTGCGAGTCATGGG
ATTCAGCACCTTGGCACAGCTGAAGCAGAGGAACACGCTGAAGGATGGTATCATCATGATCCAGACGCTGCTGAT
CATCCTCTTCATCATCGTGCCTATCTTCCTGCTGCTGGACAAGGATGACAGCAAGGCTGGCATGGAGGAAGATCA
CACCTACGAGGGCCTGGACATTGACCAGACAGCCACCTATGAGGACATAGTGACGCTGCGGACAGGGGAAGTGAA
GTGGTCTGTAGGTGAGCACCCAGGCCAGGAG**TGA**GAGCCAGGTCGCCCCATGACCTGGGTGCAGGCTCCCTGGCC
TCAGTGACTGCTTCGGAGCTGCCTGGCTCATGGCCCAACCCCTTTCCTGGACCCCCCAGCTGGCCTCTGAAGCTG
GCCCACCAGAGCTGCCATTTGTCTCCAGCCCCTGGTCCCCAGCTCTTGCCAAAGGGCCTGGAGTAGAAGGACAAC
AGGGCAGCAACTTGGAGGGAGTTCTCTGGGGATGGACGGGACCCAGCCTTCTGGGGGTGCTATGAGGTGATCCGT
CCCCACACATGGGATGGGGGAGGCAGAGACTGGTCCAGAGCCCGCAAATGGACTCGGAGCCGAGGGCCTCCCAGC
AGAGCTTGGGAAGGGCCATGGACCCAACTGGGCCCCAGAAGAGCCACAGGAACATCATTCCTCTCCCGCAACCAC
TCCCACCCCAGGGAGGCCCTGGCCTCCAGTGCCTTCCCCCGTGGAATAAACGGTGTGTCCTGAGAAACCA

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FIGURE 1978

MARLALSPVPSHWMVALLLLLSAEPVPAARSEDRYRNPKGSACSRIWQSPRFIARKRGFTVKMHCYMNSASGNVS
WLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQGIRFEDNGIYFCQQKCNNTSEVYQGCGTELRVMGFSTLAQ
LKQRNTLKDGIIMIQTLLIILFIIVPIFLLLDKDDSKAGMEEDHTYEGLDIDQTATYEDIVTLRTGEVKWSVGEH
PGQE

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FIGURE 1979

GAGGTGTTTCCCTTAGCTATGGAAACTCTATAAGAGAGATCCAGCTTGCCTCCTCTTGAGCAGTCAGCAACAGGG
TCCCGTCCTTGACACCTCAGCCTCTACAGGACTGAGAAGAAGTAAAACCGTTTGCTGGGGCTGGCCTGACTCACC
AGCTGCC**ATG**CAGCAGCCCTTCAATTACCCATATCCCCAGATCTACTGGGTGGACAGCAGTGCCAGCTCTCCCTG
GGCCCCTCCAGGCACAGTTCTTCCCTGTCCAACCTCTGTGCCCAGAAGGCCTGGTCAAAGGAGGCCACCACCACC
ACCGCCACCGCCACCACTACCACCTCCGCCGCCGCCGCCACCACTGCCTCCACTACCGCTGCCACCCCTGAAGAA
GAGAGGGAACCACAGCACAGGCCTGTGTCTCCTTGTGATGTTTTTCATGGTTCTGGTTGCCTTGGTAGGATTGGG
CCTGGGGATGTTTCAGCTCTTCCACCTACAGAAGGAGCTGGCAGAACTCCGAGAGTCTACCAGCCAGATGCACAC
AGCATCATCTTTGGAGAAGCAAATAGGCCACCCCAGTCCACCCCCTGAAAAAAAGGAGCTGAGGAAAGTGGCCCA
TTTAACAGGCAAGTCCAACTCAAGGTCCATGCCTCTGGAATGGGAAGACACCTATGGAATTGTCCTGCTTTCTGG
AGTGAAGTATAAGAAGGGGTGGCCTTGTGATCAATGAAACTGGGCTGTACTTTGTATATTCCAAAGTATACTTCCG
GGGTCAATCTTGCAACAACCTGCCCCTGAGCCACAAGGTCTACATGAGGAACTCTAAGTATCCCCAGGATCTGGT
GATGATGGAGGGGAAGATGATGAGCTACTGCACTACTGGGCAGATGTGGGCCCGCAGCAGCTACCTGGGGGCAGT
GTTCAATCTTACCAGTGCTGATCATTTATATGTCAACGTATCTGAGCTCTCTCTGGTCAATTTTGAGGAATCTCA
GACGTTTTTCGGCTTATATAAGCTC**TAA**GAGAAGCACTTTGGGATTCTTTCCATTATGATTCTTTGTTACAGGCA
CCGAGAATGTTGTATTCAGTGAGGGTCTTCTTACATGCATTTGAGGTCAAGTAAGAAGACATGAACCAAGTGGAC
CTTGAGACCACAGGGTTCAAAATGTCTGTAGCTCCTCAACTCACCTAATGTTTATGAGCCAGACAAATGGAGGAA
TATGACGGAAGAACATAGAACTCTGGGCTGCCATGTGAAGAGGGAGAAGCATGAAAAAGCAGCTACCAGGTGTTC
TACACTCATCTTAGTGCCTGAGAGTATTTAGGCAGATTGAAAAGGACACCTTTTAACTCACCTCTCAAGGTGGGC
CTTGCTACCTCAAGGGGGACTGTCTTTCAGATACATGGTTGTGACCTGAGGATTTAAGGGATGGAAAAGGAAGAC
TAGAGGCTTGCATAATAAGCTAAAGAGGCTGAAAGAGGCCAATGCCCCACTGGCAGCATCTTCACTTCTAAATGC
ATATCCTGAGCCATCGGTGAAACTAACAGATAAGCAAGAGAGATGTTTTGGGGACTCATTTCATTCCTAACACAG
CATGTGTATTTCCAGTGCAATTGTAGGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGACTAAAGAGAGA
ATGTAGATATTGTGAAGTACATATTAGGAAAATATGGGTTGCATTTGGTCAAGATTTTGAATGCTTCCTGACAAT
CAACTCTAATAGTGCTTAAAAATCATTGATTGTCAGCTACTAATGATGTTTTCCTATAATATAATAAATATTTAT
GTAGATGTGCATTTTTGTGAAATGAAACATGTAATAAAAAGTATATGTTAGGATACAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1980

MQQPFNYPYPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPLPPPPPPPPLPPLPLPPLKKRG
NHSTGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELAELRESTSQMHTASSLEKQIGHPSPPPEKKELRKVAHLT
GKSNSRSMPLEWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQSCNNLPLSHKVYMRNSKYPQDLVMM
EGKMMSYCTTGQMWARSSYLGAVFNLTSADHLYVNVSELSLVNFEESQTFFGLYKL

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FIGURE 1981

CTCCCTTTGGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAGG
ACCAAGCAAAGCC**ATG**ATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTG
GGGGTGGACAATGCTCTGTTGTGATTTCCTGGCACATCATGGAACCGACTGCTGGACTTACCATTATTCTGAAAA
ACCCATGAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGC
GGAAATTGAGTATCTGGAGAAGACTCTGCCTTTCAGTCGTTCTTACTACTGGATAGGAATCCGGAAGATAGGAGG
AATATGGACGTGGGTGGGAACCAACAAATCTCTTACTGAAGAAGCAGAGAACTGGGGAGATGGTGAGCCCAACAA
CAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGC
CTGCCACAAACTAAAGGCAGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATG
TGTAGAAATCATCAATAATTACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGTTTGTGATTCA
GTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCCTTTGGGAAACTTCAGCTTCAGCTC
ACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAACTTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAA
CTGGTCATCTCCAGAACCAACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAA
CTGTAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAAT
TGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAA
AAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTC
TGGGTTGGCATTTATCATTTGGCTGGCAAGGAGATTAAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGACCC
ATAT**TAA**ATCGCCCTTGGTGAAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAATCCTTCCATGAA
ACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTTCCTTCAGTGCATCTGGGAAGATTTCTACC
TGACCAACAGTTCCTTCAGCTTCCATTTCGCCCCTCATTTATCCCTCAACCCCCAGCCCACAGGTGTTTATACAG
CTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGATG
GCTGACTTTGCTCTTTCTTGACTCTTGTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAGACACTTCTAAAT
GAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTCTTCTGTAT
ACTGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTCTTTCTAACTCCAGTGAAGTAATG
GGGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAAC
TGGCTTCAGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGA
GTGCCAAGCAAAAGGAGAGAAGAGAGAAATAGCCTGCGCTGTTTTTAGTTTGGGGGTTTTGCTGTTTCCTTTTA
TGAGACCCATTCCTATTTCTTATAGTCAATGTTTCTTTTATCACGATATTATTAGTAAGAAAACATCACTGAAAT
GCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAAT
GAAATGCTCTCCTTTCCCCTGCCCCCAGACCTTTTATCCACTTACCTAGATTCTACATATTCTTTAAATTTCATC
TCAGGCCTCCCTCAACCCCACCACTTCTTTTATAACTAGTCCTTTACTAATCCAACCCATGATGAGCTCCTCTTC
CTGGCTTCTTACTGAAAGGTTACCCTGTAACATGCAATTTTGCATTTGAATAAAGCCTGCTTTTTAAGTGTTAA

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FIGURE 1982

MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEY
LEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKL
KAALCYTASCQPWSCSGHGECVEIINNYTCNCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHPLGNFSFSSQCAF
SCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKKGKKSKRSMNDPY

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FIGURE 1983A

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TAGACGCACCCTCTGAAGATGGTGACTCCCTCCTGAGAAGCTGGACCCCTTGGTAAAAGACAAGGCCTTCTCCAA
GAAGAATATGAAAGTGTTACTCAGACTTATTTGTTTCATAGCTCTACTGATTTCTTCTCTGGAGGCTGATAAATG
CAAGGAACGTGAAGAAAAATAATTTTAGTGTCATCTGCAAATGAAATTGATGTTCGTCCCTGTCCTCTTAACCC
AAATGAACACAAAGGCACTATAACTTGGTATAAAGATGACAGCAAGACACCTGTATCTACAGAACAAGCCTCCAG
GATTCATCAACACAAAGAGAAACTTTGGTTTGTTCCTGCTAAGGTGGAGGATTCAGGACATTACTATTGCGTGGT
AAGAAATTCATCTTACTGCCTCAGAATTAAAATAAGTGCAAAATTTGTGGAGAATGAGCCTAACTTATGTTATAA
TGCACAAGCCATATTTAAGCAGAAACTACCCGTTGCAGGAGACGGAGGACTTGTGTGCCCTTATATGGAGTTTTT
TAAAAATGAAAATAATGAGTTACCTAAATTACAGTGGTATAAGGATTGCAAACCTCTACTTCTTGACAATATACA
CTTTAGTGGAGTCAAAGATAGGCTCATCGTGATGAATGTGGCTGAAAAGCATAGAGGGAACTATACTTGTCATGC
ATCCTACACATACTTGGGCAAGCAATATCCTATTACCCGGGTAATAGAATTTATTACTCTAGAGGAAAACAAACC
CACAAGGCCTGTGATTGTGAGCCCAGCTAATGAGACAATGGAAGTAGACTTGGGATCCCAGATACAATTGATCTG
TAATGTCACCGGCCAGTTGAGTGACATTGCTTACTGGAAGTGGAATGGGTCAGTAATTGATGAAGATGACCCAGT
GCTAGGGGAAGACTATTACAGTGTGGAAAATCCTGCAAACAAAAGAAGGAGTACCCTCATCACAGTGCTTAATAT
ATCGGAAATTGAAAGTAGATTTTATAAACATCCATTTACCTGTTTTGCCAAGAATACACATGGTATAGATGCAGC
ATATATCCAGTTAATATATCCAGTCACTAATTTCCAGAAGCACATGATTGGTATATGTGTCACGTTGACAGTCAT
AATTGTGTGTTCTGTTTTCATCTATAAAATCTTCAAGATTGACATTGTGCTTTGGTACAGGGATTCCTGCTATGA
TTTTCTCCCAATAAAAGCTTCAGATGGAAAGACCTATGACGCATATATACTGTATCCAAAGACTGTTGGGGAAGG
GTCTACCTCTGACTGTGATATTTTTGTGTTTAAAGTCTTGCCTGAGGTCTTGGAAAAACAGTGTGGATATAAGCT
GTTCATTTATGGAAGGGATGACTACGTTGGGGAAGACATTGTTGAGGTCATTAATGAAAACGTAAAGAAAAGCAG
AAGACTGATTATCATTTTAGTCAGAGAAACATCAGGCTTCAGCTGGCTGGGTGGTTCATCTGAAGAGCAAATAGC
CATGTATAATGCTCTTGTTCAGGATGGAATTAAAGTTGTCCTGCTTGAGCTGGAGAAAATCCAAGACTATGAGAA
AATGCCAGAATCGATTAAATTCATTAAGCAGAAACATGGGGCTATCCGCTGGTCAGGGGACTTTACACAGGGACC
ACAGTCTGCAAAGACAAGGTTCTGGAAGAATGTCAGGTACCACATGCCAGTCCAGCGACGGTCACCTTCATCTAA
ACACCAGTTACTGTCACCAGCCACTAAGGAGAAACTGCAAAGAGAGGCTCACGTGCCTCTCGGGTAGCATGGAGA
AGTTGCCAAGAGTTCTTTAGGTGCCTCCTGTCTTATGGCGTTGCAGGCCAGGTTATGCCTCATGCTGACTTGCAG
AGTTCATGGAATGTAACTATATCATCCTTTATCCCTGAGGTCACCTGGAATCAGATTATTAAGGGAATAAGCCAT
GACGTCAATAGCAGCCCAGGGCACTTCAGAGTAGAGGGCTTGGGAAGATCTTTTAAAAAGGCAGTAGGCCCGGTG
TGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCTGAAGTGGGTGGATCACCAGAGGTCAGGAGTTCGAGA
CCAGCCCAGCCAACATGGCAAAACCCCATCTCTACTAAAAATACAAAAATGAGCTAGGCATGGTGGCACACGCCT
GTAATCCCAGCTACACCTGAGGCTGAGGCAGGAGAATTGCTTGAACCGGGGAGACGGAGGTTGCAGTGAGCCGAG
TTTGGGCCACTGCACTCTAGCCTGGCAACAGAGCAAGACTCCGTCTCAAAAAAAGGGCAATAAATGCCCTCTCTG
AATGTTTGAACTGCCAAGAAAAGGCATGGAGACAGCGAACTAGAAGAAAGGGCAAGAAGGAAATAGCCACCGTCT
ACAGATGGCTTAGTTAAGTCATCCACAGCCCAAGGGCGGGGCTATGCCTTGTCTGGGGACCCTGTAGAGTCACTG
ACCCTGGAGCGGCTCTCCTGAGAGGTGCTGCAGGCAAAGTGAGACTGACACCTCACTGAGGAAGGGAGACATATT
CTTGGAGAACTTTCCATCTGCTTGTATTTTCCATACACATCCCCAGCCAGAAGTTAGTGTCCGAAGACCGAATTT
TATTTTACAGAGCTTGAAAACTCACTTCAATGAACAAAGGGATTCTCCAGGATTCCAAAGTTTTGAAGTCATCTT
AGCTTTCCACAGGAGGGAGAGAACTTAAAAAAGCAACAGTAGCAGGGAATTGATCCACTTCTTAATGCTTTCCTC
CCTGGCATGACCATCCTGTCCTTTGTTATTATCCTGCATTTTACGTCTTTGGAGGAACAGCTCCCTAGTGGCTTC
CTCCGTCTGCAATGTCCCTTGCACAGCCCACACATGAACCATCCTTCCCATGATGCCGCTCTTCTGTCATCCCGC
TCCTGCTGAAACACCTCCCAGGGGCTCCACCTGTTCAGGAGCTGAAGCCCATGCTTTCCCACCAGCATGTCACTC
CCAGACCACCTCCCTGCCCTGTCCTCCAGCTTCCCCTCGCTGTCCTGCTGTGTGAATTCCCAGGTTGGCCTGGTG
GCCATGTCGCCTGCCCCCAGCACTCCTCTGTCTCTGCTCTTGCCTCGACCCTTCCTCCTCCTTTGCCTAGGAGGC
CTTCTCGCATTTTCTCTAGCTGATCAGAATTTTACCAAAATTCAGAACATCCTCCAATTCCACAGTCTCTGGGAG
ACTTTCCCTAAGAGGCGACTTCCTCTCCAGCCTTCTCTCTCTGGTCAGGCCCACTGCAGAGATGGTGGTGAGCAC
ATCTGGGAGGCTGGTCTCCCTCCAGCTGGAATTGCTGCTCTCTGAGGGAGAGGCTGTGGTGGCTGTCTCTGTCCC
TCACTGCCTTCCAGGAGCAATTTGCACATGTAACATAGATTTATGTAATGCTTTATGTTTAAAAACATTCCCCAA
TTATCTTATTTAATTTTTGCAATTATTCTAATTTTATATATAGAGAAAGTGACCTATTTTTTAAAAAAAATCACAC
TCTAAGTTCTATTGAACCTAGGACTTGAGCCTCCATTTCTGGCTTCTAGTCTGGTGTTCTGAGTACTTGATTTCA
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FIGURE 1983B

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GGTCAATAACGGTCCCCCCTCACTCCACACTGGCACGTTTGTGAGAAGAAATGACATTTTGCTAGGAAGTGACCG
AGTCTAGGAATGCTTTTATTCAAGACACCAAATTCCAAACTTCTAAATGTTGGAATTTTCAAAAATTGTGTTTAG
ATTTTATGAAAAACTCTTCTACTTTCATCTATTCTTTCCCTAGAGGCAAACATTTCTTAAAATGTTTCATTTTCA
TTAAAAATGAAAGCCAAATTTATATGCCACCGATTGCAGGACACAAGCACAGTTTTAAGAGTTGTATGAACATGG
AGAGGACTTTTGGTTTTTATATTTCTCGTATTTAATATGGGTGAACACCAACTTTTATTTGGAATAATAATTTTC
CTCCTAAACAAAAACACATTGAGTTTAAGTCTCTGACTCTTGCCTTTCCACCTGCTTTCTCCTGGGCCCGCTTTG
CCTGCTTGAAGGAACAGTGCTGTTCTGGAGCTGCTGTTCCAACAGACAGGGCCTAGCTTTCATTTGACACACAGA
CTACAGCCAGAAGCCCATGGAGCAGGGATGTCACGTCTTGAAAAGCCTATTAGATGTTTTACAAATTTAATTTTG
CAGATTATTTTAGTCTGTCATCCAGAAAATGTGTCAGCATGCATAGTGCTAAGAAAGCAAGCCAATTTGGAAACT
TAGGTTAGTGACAAAATTGGCCAGAGAGTGGGGGTGATGATGACCAAGAATTACAAGTAGAATGGCAGCTGGAAT
TTAAGGAGGGACAAGAATCAATGGATAAGCGTGGGTGGAGGAAGATCCAAACAGAAAAGTGCAAAGTTATTCCCC
ATCTTCCAAGGGTTGAATTCTGGAGGAAGAAGACACATTCCTAGTTCCCCGTGAACTTCCTTTGACTTATTGTCC
CCACTAAAACAAAACAAAAAACTTTTAATGCCTTCCACATTAATTAGATTTTCTTGCAGTTTTTTTATGGCATTT
TTTTAAAGATGCCCTAAGTGTTGAAGAAGAGTTTGCAAATGCAACAAAAATATTTAATTACCGGTTGTTAAAACT
GGTTTAGCACAATTTATATTTTCCCTCTCTTGCCTTTCTTATTTGCAATAAAAGGTATTGAGCCATTTTTTAAAT
GACATTTTTGATAAATTATGTTTGTACTAGTTGATGAAGGAGTTTTTTTTAACCTGTTTATATAATTTTGCAGCA
GAAGCCAAATTTTTTGTATATTAAAGCACCAAATTCATGTACAGCATGCATCACGGATCAATAGACTGTACTTAT
TTTCCAATAAAATTTTCAAACTTTGTACTGTTAAA
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FIGURE 1984

MKVLLRLICFIALLISSLEADKCKEREEKIILVSSANEIDVRPCPLNPNEHKGTITWYKDDSKTPVSTEQASRIH
QHKEKLWFVPAKVEDSGHYYCVVRNSSYCLRIKISAKFVENEPNLCYNAQAIFKQKLPVAGDGGLVCPYMEFFKN
ENNELPKLQWYKDCKPLLLDNIHFSGVKDRLIVMNVAEKHRGNYTCHASYTYLGKQYPITRVIEFITLEENKPTR
PVIVSPANETMEVDLGSQIQLICNVTGQLSDIAYWKWNGSVIDEDDPVLGEDYYSVENPANKRRSTLITVLNISE
IESRFYKHPFTCFAKNTHGIDAAYIQLIYPVTNFQKHMIGICVTLTVIIVCSVFIYKIFKIDIVLWYRDSCYDFL
PIKASDGKTYDAYILYPKTVGEGSTSDCDIFVFKVLPEVLEKQCGYKLFIYGRDDYVGEDIVEVINENVKKSRRL
IIILVRETSGFSWLGGSSEEQIAMYNALVQDGIKVVLLELEKIQDYEKMPESIKFIKQKHGAIRWSGDFTQGPQS
AKTRFWKNVRYHMPVQRRSPSSKHQLLSPATKEKLQREAHVPLG

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FIGURE 1985

ATGCACTTTCTTTGCCAAAGGCAAACGCAGAACGTTTCAGAGCC**ATG**AGGATGCTTCTGCATTTGAGTTTGCTAG
CTCTTGGAGCTGCCTACGTGTATGCCATCCCCACAGAAATTCCCACAAGTGCATTGGTGAAAGAGACCTTGGCAC
TGCTTTCTACTCATCGAACTCTGCTGATAGCCAATGAGACTCTGAGGATTCCTGTTCCTGTACATAAAAATCACC
AACTGTGCACTGAAGAAATCTTTCAGGGAATAGGCACACTGGAGAGTCAAACTGTGCAAGGGGGTACTGTGGAAA
GACTATTCAAAAACTTGTCCTTAATAAAGAAATACATTGACGGCCAAAAAAAAAGTGTGGAGAAGAAAGACGGA
GAGTAAACCAATTCCTAGACTACCTGCAAGAGTTTCTTGGTGTAATGAACACCGAGTGGATAATAGAAAGT**TGA**G
ACTAAACTGGTTTGTTGCAGCCAAAGATTTTGGAGGAGAAGGACATTTTACTGCAGTGAGAATGAGGGCCAAGAA
AGAGTCAGGCCTTAATTTTCAATATAATTTAACTTCAGAGGGAAAGTAAATATTTCAGGCATACTGACACTTTGC
CAGAAAGCATAAAATTCTTAAAATATATTTCAGATATCAGAATCATTGAAGTATTTTCCTCCAGGCAAAATTGAT
ATACTTTTTTCTTATTTAACTTAACATTCTGTAAAATGTCTGTTAACTTAATAGTATTTATGAAATGGTTAAGAA
TTTGGTAAATTAGTATTTATTTAATGTTATGTTGTGTTCTAATAAAACAAAAATAGACAACTGTTC

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FIGURE 1986

MRMLLHLSLLALGAAYVYAIPTEIPTSALVKETLALLSTHRTLLIANETLRIPVPVHKNHQLCTEEIFQGIGTLE
SQTVQGGTVERLFKNLSLIKKYIDGQKKKCGEERRRVNQFLDYLQEFLGVMNTEWIIES

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FIGURE 1987

GTAATGCAGAGATAATAAAACTTCTTAGGTCCATAGGTCTTATAATAATTTAATAACCTAAACATGGTATACAAA
TTCCTCCAAACCCAATAACATAATTATAGTTTCAAAAAGTTCCCCAAACTTTCAAGTTAGATTTTATTGCTTTGA
TGAGTGGCTTTAAATATGAAAAGTCTTGCCTGTGAAGGGCAATCCTTTTCCCGTGGACTGGGATCTATAGAAATA
CAGAAATGTGCCCAGGGGTTCATCTCCCTAATAACCATCATTCACATTTCTCAACCTCCCTAATAACCAGCCACC
ATGTGAGAAGGATCCACAGTTACTGTTTATGACTATAATTAACTAGTACCTGGGACTGGTCAGTGGAGTTGGTTG
CAACCTGATGCTAAGGATGTCAAAGTTGTCTCGGCCTCTGTTCCCAGCCAGTAAGTAATTCCCTGGCCTCGGGCC
ATACCCCCTAATCTTGGTCAGCTGATTATGACAGGCAGACAGCACAGTAAATAACACTATATATTAAGAAAACCC
AAAGCATATGTATCAATGGTATATACCCAACAGCATCCTAGGAATGGAGAGTCTGTAGCAAGGGCCTCCAATGTG
AAGGTCAACACAGTCACTGTGATGCGTGTATTTCCATTTTGTAAAGCATGATCTCTGGTGGTCATTTTTATCTTC
CTAACTTATTGGAAAAGTCTCCTGTTTTGGGGGCCCGCCCCTGGTCACAGCCAGACTGACTCAGTTTCCCTGGGA
GGTCCCGCTCGAGCCCGTCCTTCCCCTCCCTCTGCCCGCCCCCAGCCCTCGCCCCACCCTCGGCGCCCGCACATC
TGCCTGCTCAGCTCCAGACGGCGCCCGGACCCCCGGGCGCGGGATCCAGCCAGGTGGGAGCCCCGCAGATGAGGT
CTCTGAAGGTGTGCCTGAACCAGTGCCAGCCTGCCCTGTCTGCAGCATCGGCCTGATGGGGTGGTGACTGATCCC
TCAGGGCTCCGGAGCC**ATG**TGGCCCAACGGCAGTTCCCTGGGGCCCTGTTTCCGGCCCACAAACATTACCCTGGA
GGAGAGACGGCTGATCGCCTCGCCCTGGTTCGCCGCCTCCTTCTGCGTGGTGGGCCTGGCCTCCAACCTGCTGGC
CCTGAGCGTGCTGGCGGGCGCGCGGCAGGGGGGTTCGCACACGCGCTCCTCCTTCCTCACCTTCCTCTGCGGCCT
CGTCCTCACCGACTTCCTGGGGCTGCTGGTGACCGGTACCATCGTGGTGTCCCAGCACGCCGCGCTCTTCGAGTG
GCACGCCGTGGACCCTGGCTGCCGTCTCTGTCGCTTCATGGGCGTCGTCATGATCTTCTTCGGCCTGTCCCCGCT
GCTGCTGGGGGGCCGCCATGGCCTCAGAGCGCTACCTGGGTATCACCCGGCCCTTCTCGCGCCCGGCGGTCGCCTC
GCAGCGCCGCGCCTGGGCCACCGTGGGGCTGGTGTGGGCGGCCGCGCTGGCGCTGGGCCTGCTGCCCCTGCTGGG
CGTGGGTCGCTACACCGTGCAATACCCGGGGTCCTGGTGCTTCCTGACGCTGGGCGCCGAGTCCGGGGACGTGGC
CTTCGGGCTGCTCTTCTCCATGCTGGGCGGCCTCTCGGTCGGGCTGTCCTTCCTGCTGAACACGGTCAGCGTGGC
CACCCTGTGCCACGTCTACCACGGGCAGGAGGCGGCCCAGCAGCGTCCCCGGGACTCCGAGGTGGAGATGATGGC
TCAGCTCCTGGGGATCATGGTGGTGGCCAGCGTGTGTTGGCTGCCCCTTCTGGTCTTCATTGCCCAGACAGTGCT
GCGAAACCCGCCTGCCATGAGCCCCGCCGGGCAGCTGTCCCGCACCACGGAGAAGGAGCTGCTCATCTACTTGCG
CGTGGCCACCTGGAACCAGATCCTGGACCCCTGGGTGTATATCCTGTTCCGCCGCGCCGTGCTCCGGCGTCTCCA
GCCTCGCCTCAGCACCCGGCCCAGGTCGCTGTCCCTCCAGCCCCAGCTCACGCAGCGCTCCGGGCTGCAG**TAG**GA
AGTGGACAGAGCGCCCCTCCCGCGCCTTTCCGCGGAGCCCTTGGCCCCTCGGACAGCCCATCTGCCTGTTCTGAG
GATTCAGGGGCTGGGGGTGCTGGATGGACAGTGGGCATCAGCAGCAGGGTTTTGGGTTGACCCCAATCCAACCCG
GGGACCCCCAACTCCTCCCTGATCCTTTTACCAAGCACTCTCCCTTCCTCGGCCCCTTTTTCCCATCCAGAGCTC
CCACCCCTTCTCTGCGTCCCTCCCAACCCCAGGAAGGGCATGCAGACATTGGAAGAGGGTCTTGCATTGCTATTT
TTTTTTTTAGACGGAGTCTTGCTCTGTCCCCCAGGCTGGAGTGCAGTGGCGCAATCTCAGCTCACTGCAACCTCC
ACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTATAGGCGCGCGCCACCACGCCC
GGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAG
GTGATTCACCAGCCTCAGCCTCCCAAAGTGCTGGGATCACAGGCATGAACCACCACACCTGGCCATTTTTTTTTT
TTTTTAGACGGAGTCTCACTCTGTGGCCCAGCCTGGAGTACAGTGGCACGATCTCGGCTCACTGCAACCTCCGC
CTCCCGGGTTCAAGCGATTCTCGTGCCTCAGCCTCCCGAGCAGCTGGGATTACAGGCGTAAGCCACTGCGCCCGG
CCTTGCATGCTCTTTGACCCTGAATTTGACCTACTTGCTGGGGTACAGTTGCTTCCTTTTGAACCTCCAACAGGG
AAGGCTCTGTCCAGAAAGGATTGAATGTGAAACGGGGGCACCCCCTTTTCTTGCCAAAATATATCTCTGCCTTTG
GTTTTAT

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FIGURE 1988

MWPNGSSLGPCFRPTNITLEERRLIASPWFAASFCVVGLASNLLALSVLAGARQGGSHTRSSFLTFLCGLVLTDF
LGLLVTGTIVVSQHAALFEWHAVDPGCRLCRFMGVVMIFFGLSPLLLGAAMASERYLGITRPFSRPAVASQRRAW
ATVGLVWAAALALGLLPLLGVGRYTVQYPGSWCFLTLGAESGDVAFGLLFSMLGGLSVGLSFLLNTVSVATLCHV
YHGQEAAQQRPRDSEVEMMAQLLGIMVVASVCWLPLLVFIAQTVLRNPPAMSPAGQLSRTTEKELLIYLRVATWN
QILDPWVYILFRRAVLRRLQPRLSTRPRSLSLQPQLTQRSGLQ

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FIGURE 1989

AAGACTCAAACTTAGAAACTTGAATTAGATGTGGTATTCAAATCCTTACGTGCCGCGAAGACACAGACAGCCCCC
GTAAGAACCCACGAAGCAGGCGAAGTTCATTGTTCTCAACATTCTAGCTGCTCTTGCTGCATTTGCTCTGGAATT
CTTGTAGAGATATTACTTGTCCTTCCAGGCTGTTCTTTCTGTAGCTCCCTTGTTTTCTTTTTGTGATC**ATG**TTGC
AGATGGCTGGGCAGTGCTCCCAAAATGAATATTTTGACAGTTTGTTGCATGCTTGCATACCTTGTCAACTTCGAT
GTTCTTCTAATACTCCTCCTCTAACATGTCAGCGTTATTGTAATGCAAGTGTGACCAATTCAGTGAAAGGAACGA
ATGCGATTCTCTGGACCTGTTTGGGACTGAGCTTAATAATTTCTTTGGCAGTTTTCGTGCTAATGTTTTTGCTAA
GGAAGATAAGCTCTGAACCATTAAAGGACGAGTTTAAAAACACAGGATCAGGTCTCCTGGGCATGGCTAACATTG
ACCTGGAAAAGAGCAGGACTGGTGATGAAATTATTCTTCCGAGAGGCCTCGAGTACACGGTGGAAGAATGCACCT
GTGAAGACTGCATCAAGAGCAAACCGAAGGTCGACTCTGACCATTGCTTTCCACTCCCAGCTATGGAGGAAGGCG
CAACCATTCTTGTCACCACGAAAACGAATGACTATTGCAAGAGCCTGCCAGCTGCTTTGAGTGCTACGGAGATAG
AGAAATCAATTTCTGCTAGG**TAA**TTAACCATTTCGACTCGAGCAGTGCCACTTTAAAAATCTTTTGTCAGAATAG
ATGATGTGTCAGATCTCTTTAGGATGACTGTATTTTTCAGTTGCCGATACAGCTTTTTGTCCTCTAACTGTGGAA
ACTCTTTATGTTAGATATATTTCTCTAGGTTACTGTTGGGAGCTTAATGGTAGAAACTTCCTTGGTTTCATGATT
AAAGTCTTTTTTTTTCCTGA

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FIGURE 1990

MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLSLIISLAVFVLMF
LLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLEYTVEECTCEDCIKSKPKVDSDHCFPLPAME
EGATILVTTKTNDYCKSLPAALSATEIEKSISAR

FIGURE 1991A

ATACGGGAGAACTAAGGCTGAAACCTCGGAGGAACAACCACTTTTGAAGTGACTTCGCGGCGTGCGTTGGGTGCG
GACTAGGTGGCCCCGGCGGGAGTGTGCTGGAGCCTGAAGTCCACGCGCGCGGCTGAGAACCGCCGGGACCGCACG
TGGGCGCCGCGCGCTTCCCCCGCTTCCCAGGTGGGCGCCGGCCGCCAGGCCACCTCACGTCCGGCCCCGGGG**ATG**

CGCGTCCTCCTCGCCGCGCTGGGACTGCTGTTCCTGGGGGCGCTACGAGCCTTCCCACAGGATCGACCCTTCGAG
GACACCTGTCATGGAAACCCCAGCCACTACTATGACAAGGCTGTCAGGAGGTGCTGTTACCGCTGCCCCATGGGG
CTGTTCCCGACACAGCAGTGCCCACAGAGGCCTACTGACTGCAGGAAGCAGTGTGAGCCTGACTACTACCTGGAT
GAGGCCGACCGCTGTACAGCCTGCGTGACTTGTTCTCGAGATGACCTCGTGGAGAAGACGCCGTGTGCATGGAAC
TCCTCCCGTGTCTGCGAATGTCGACCCGGCATGTTCTGTTCCACGTCTGCCGTCAACTCCTGTGCCCGCTGCTTC
TTCCATTCTGTCTGTCCGGCAGGGATGATTGTCAAGTTCCCAGGCACGGCGCAGAAGAACACGGTCTGTGAGCCG
GCTTCCCCAGGGGTCAGCCCTGCCTGTGCCAGCCCAGAGAACTGCAAGGAACCCTCCAGTGGCACCATCCCCCAG
GCCAAGCCCACCCCGGTGTCCCCAGCAACCTCCAGTGCCAGCACCATGCCTGTAAGAGGGGGCACCCGCCTCGCC
CAGGAAGCTGCTTCTAAACTGACGAGGGCTCCCGACTCTCCCTCCTCTGTGGGAAGGCCTAGTTCAGATCCAGGT
CTGTCCCCAACACAGCCATGCCCAGAGGGGTCTGGTGATTGCAGAAAGCAGTGTGAGCCCGACTACTACCTGGAC
GAGGCCGGCCGCTGCACAGCCTGCGTGAGCTGTTCTCGAGATGACCTTGTGGAGAAGACGCCATGTGCATGGAAC
TCCTCCCGCACCTGCGAATGTCGACCTGGCATGATCTGTGCCACATCAGCCACCAACTCCTGTGCCCGCTGTGTC
CCCTACCCAATCTGTGCAGCAGAGACGGTCACCAAGCCCCAGGATATGGCTGAGAAGGACACCACCTTTGAGGCG
CCACCCCTGGGGACCCAGCCGGACTGCAACCCCACCCCAGAGAATGGCGAGGCGCCTGCCAGCACCAGCCCCACT
CAGAGCTTGCTGGTGGACTCCCAGGCCAGTAAGACGCTGCCCATCCCAACCAGCGCTCCCGTCGCTCTCTCCTCC
ACGGGGAAGCCCGTTCTGGATGCAGGGCCAGTGCTCTTCTGGGTGATCCTGGTGTTGGTTGTGGTGGTCGGCTCC
AGCGCCTTCCTCCTGTGCCACCGGAGGGCCTGCAGGAAGCGAATTCGGCAGAAGCTCCACCTGTGCTACCCGGTC
CAGACCTCCCAGCCCAAGCTAGAGCTTGTGGATTCCAGACCCAGGAGGAGCTCAACGCAGCTGAGGAGTGGTGCG
TCGGTGACAGAACCCGTCGCGGAAGAGCGAGGGTTAATGAGCCAGCCACTGATGGAGACCTGCCACAGCGTGGGG
GCAGCCTACCTGGAGAGCCTGCCGCTGCAGGATGCCAGCCCGGCCGGGGGCCCCTCGTCCCCCAGGGACCTTCCT
GAGCCCCGGGTGTCCACGGAGCACACCAATAACAAGATTGAGAAAATCTACATCATGAAGGCTGACACCGTGATC
GTGGGGACCGTGAAGGCTGAGCTGCCGGAGGGCCGGGGCCTGGCGGGGCCAGCAGAGCCCGAGTTGGAGGAGGAG
CTGGAGGCGGACCATACCCCCCACTACCCCGAGCAGGAGACAGAACCGCCTCTGGGCAGCTGCAGCGATGTCATG
CTCTCAGTGGAAGAGGAAGGGAAAGAAGACCCCTTGCCCACAGCT**GCC**TCTGGAAAG**TGA**GGCCTGGGCTGGGCT
GGGGCTAGGAGGGCAGCAGGGTGGCCTCTGGGAGGCCAGGATGGCACTGTTGGCACCGAGGTTGGGGGCAGAGGC
CCATCTGGCCTGAACTGAGGCTCCAGCATCTAGTGGTGGACCGGCCGGTCACTGCAGGGGTCTGGTGGTCTCTGC
TTGCATCCCCAACTTAGCTGTCCCCTGACCCAGAGCCTAGGGGATCCGGGGCTTGTACAGAAGAGACAGTCCAAG
GGGACTGGATCCCAGCAGTGATGTTGGTTGAGGCAGCAAACAGATGGCAGGATGGGCACTGCCGAGAACAGCATT
GGTCCAGAGCCCTGGGCATCAGACCTTAACCACCAGGCCCACAGCCCAGCGAGGGAGAGGTCGTGAGGCCAGCT
CCCGGGGGCCCCTGTAACCCTACTCTCCTCTCTCCCTGGACCTCAGAGGTGACACCCATTGGGCCCTTCCGGCATG
CCCCCAGTTACTGTAAATGTGGCCCCCAGTGGGCATGGAGCCAGTGCCTGTGGTTGTTTCTCCAGAGTCAAAAGG
GAAGTCGAGGGATGGGGCGTCGTCAGCTGGCACTGTCTCTGCTGCAGCGGCCACACTGTACTCTGCACTGGTGTG
AGGGCCCCTGCCTGGACTGTGGGACCCTCCTGGTGCTGCCCACCTTCCCTGTCCTGTAGCCCCCTCGGTGGGCCC
AGGGCCTAGGGGCCCAGGATCAAGTCACTCATCTCAGAATGTCCCCACCAATCCCCGCCACAGCAGGCGCCTCGG
GTCCCAGATGTCTGCAGCCCTCAGCAGCTGCAGACCGCCCCTCACCAACCCAGAGAACCTGCTTTACTTTGCCCA
GGGACTTCCTCCCCATGTGAACATGGGGAACTTCGGGCCCTGCCTGGAGTCCTTGACCGCTCTCTGTGGGCCCCA
CCCACTCTGTCCTGGGAAATGAAGAAGCATCTTCCTTAGGTCTGCCCTGCTTGCAAATCCACTAGCACCGACCCC
ACCACCTGGTTCCGGCTCTGCACGCTTTGGGGTGTGGATGTCGAGAGGCACCACGGCCTCACCCAGGCATCTGCT
TTACTCTGGACCATAGGAAACAAGACCGTTTGGAGGTTTCATCAGGATTTTGGGTTTTTCACATTTCACGCTAAG
GAGTAGTGGCCCTGACTTCCGGTCGGCTGGCCAGCTGACTCCCTAGGGCCTTCAGACGTGTATGCAAATGAGTGA
TGGATAAGGATGAGTCTTGGAGTTGCGGGCAGCCTGGAGACTCGTGGACTTACCGCCTGGAGGCAGGCCCGGGAA
GGCTGCTGTTTACTCATCGGGCAGCCACGTGCTCTCTGGAGGAAGTGATAGTTTCTGAAACCGCTCAGATGTTTT
GGGGAAAGTTGGAGAAGCCGTGGCCTTGCGAGAGGTGGTTACACCAGAACCTGGACATTGGCCAGAAGAAGCTTA
AGTGGGCAGACACTGTTTGCCCAGTGTTTGTGCAAGGATGGAGTGGGTGTCTCTGCATCACCCACAGCCGCAGCT
GTAAGGCACGCTGGAAGGCACACGCCTGCCAGGCAGGGCAGTCTGGCGCCCATGATGGGAGGGATTGACATGTTT

FIGURE 1991B

CAACAAAATAATGCACTTCCTTAAAAAAAA

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FIGURE 1992

MRVLLAALGLLFLGALRAFPQDRPFEDTCHGNPSHYYDKAVRRCCYRCPMGLFPTQQCPQRPTDCRKQCEPDYYL
DEADRCTACVTCSRDDLVEKTPCAWNSSRVCECRPGMFCSTSAVNSCARCFFHSVCPAGMIVKFPGTAQKNTVCE
PASPGVSPACASPENCKEPSSGTIPQAKPTPVSPATSSASTMPVRGGTRLAQEAASKLTRAPDSPSSVGRPSSDP
GLSPTQPCPEGSGDCRKQCEPDYYLDEAGRCTACVSCSRDDLVEKTPCAWNSSRTCECRPGMICATSATNSCARC
VPYPICAAETVTKPQDMAEKDTTFEAPPLGTQPDCNPTPENGEAPASTSPTQSLLVDSQASKTLPIPTSAPVALS
STGKPVLDAGPVLFWVILVLVVVVGSSAFLLCHRRACRKRIRQKLHLCYPVQTSQPKLELVDSRPRRSSTQLRSG
ASVTEPVAEERGLMSQPLMETCHSVGAAYLESLPLQDASPAGGPSSPRDLPEPRVSTEHTNNKIEKIYIMKADTV
IVGTVKAELPEGRGLAGPAEPELEEELEADHTPHYPEQETEPPLGSCSDVMLSVEEEGKEDPLPTAASGK

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FIGURE 1993

ATGGCACTGACTGCCCACCCCTCCTGCCTCCTGGCCCTGTTGGTGGCAGGCCTAGCCCAAGGCATCAGAGGCCCC
CTTAGGGCCCAGGACCTAGGTCCCCAGCCGCTAGAGCTGAAAGAGGCCTTCAAGTTGTTCCAGATCCAGTTCAAC
CGGAGTTACCTGAGCCCAGAAGAGCATGCTCACCGCCTGGACATCTTTGCCCACAACCTGGCCCAGGCTCAGAGG
CTGCAGGAGGAGGACTTGGGCACAGCTGAGTTTGGGGTGACTCCATTCAGTGACCTCACAGAGGAGGAGTTTGGC
CAGCTCTATGGCTATCGGAGGGCAGCTGGAGGGGTCCCCAGCATGGGCAGAGAAATAAGGTCTGAAGAGCCAGAG
GAGTCAGTACCTTTCAGCTGTGACTGGCGGAAGGTGGCCGGCGCCATCTCACCCATCAAGGACCAGAAAAACTGC
AACTGCTGCTGGGCCATGGCAGCGGCAGGCAACATAGAGACCCTGTGGCGCATCAGTTTCTGGGATTTTGTGGAC
GTCTCCGTGCATGAACTGCTGGACTGTGGCCGCTGTGGGGATGGCTGCCACGGTGGCTTCGTCTGGGACGCGTTC
ATAACTGTCCTCAACAACAGCGGCCTGGCCAGTGAAAAGGACTACCCGTTCCAGGGCAAAGTCAGAGCCCACAGG
TGCCACCCCAAGAAGTACCAGAAGGTGGCCTGGATCCAGGACTTCATCATGCTGCAGAACAACGAGCACAGAATT
GCGCAGTACCTGGCCACTTATGGCCCCATCACCGTGACCATCAACATGAAGCCCCTTCAGCTATACCGGAAAGGT
GTGATCAAGGCCACACCCACCACCTGTGACCCCCAGCTTGTGGACCACTCTGTCCTGCTGGTGGGTTTTGGCAGC
GTCAAGTCAGAGGAGGGGATATGGGCAGAGACAGTCTCATCGCAGTCTCAGCCTCAGCCTCCACACCCCACCCCA
TACTGGATCCTGAAGAACTCCTGGGGGGCCCAATGGGGAGAGAAGGGCTATTTCCGGCTGCACCGAGGGAGCAAT
ACCTGTGGCATCACCAAGTTCCCGCTCACTGCCCGTGTGCAGAAACCGGATATGAAGCCCCGAGTCTCCTGCCCT
CCC**TGA**

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FIGURE 1994

MALTAHPSCLLALLVAGLAQGIRGPLRAQDLGPQPLELKEAFKLFQIQFNRSYLSPEEHAHRLDIFAHNLAQAQR
LQEEDLGTAEFGVTPFSDLTEEEFGQLYGYRRAAGGVPSMGREIRSEEPEESVPFSCDWRKVAGAISPIKDQKNC
NCCWAMAAAGNIETLWRISFWDFVDVSVHELLDCGRCGDGCHGGFVWDAFITVLNNSGLASEKDYPFQGKVRAHR
CHPKKYQKVAWIQDFIMLQNNEHRIAQYLATYGPITVTINMKPLQLYRKGVIKATPTTCDPQLVDHSVLLVGFGS
VKSEEGIWAETVSSQSQPQPPHPTPYWILKNSWGAQWGEKGYFRLHRGSNTCGITKFPLTARVQKPDMKPRVSCP
P

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FIGURE 1995

ACTCGTCTCTGGTAAAGTCTGAGCAGGACAGGGTGGCTGACTGGCAGATCCAGAGGTTCCCTTGGCAGTCCACGC
CAGGCCTTCACC**ATG**GATCAGTTCCCTGAATCAGTGACAGAAAACTTTGAGTACGATGATTTGGCTGAGGCCTGT
TATATTGGGGACATCGTGGTCTTTGGGACTGTGTTCCTGTCCATATTCTACTCCGTCATCTTTGCCATTGGCCTG
GTGGGAAATTTGTTGGTAGTGTTTGCCCTCACCAACAGCAAGAAGCCCAAGAGTGTCACCGACATTTACCTCCTG
AACCTGGCCTTGTCTGATCTGCTGTTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAATGAAAAGGGC
CTCCACAATGCCATGTGCAAATTCACTACCGCCTTCTTCTTCATCGGCTTTTTTGGAAGCATATTCTTCATCACC
GTCATCAGCATTGATAGGTACCTGGCCATCGTCCTGGCCGCCAACTCCATGAACAACCGGACCGTGCAGCATGGC
GTCACCATCAGCCTAGGCGTCTGGGCAGCAGCCATTTTGGTGGCAGCACCCCAGTTCATGTTCACAAAGCAGAAA
GAAAATGAATGCCTTGGTGACTACCCCGAGGTCCTCCAGGAAATCTGGCCCGTGCTCCGCAATGTGGAAACAAAT
TTTCTTGGCTTCCTACTCCCCCTGCTCATTATGAGTTATTGCTACTTCAGAATCATCCAGACGCTGTTTTCCTGC
AAGAACCACAAGAAAGCCAAAGCCATTAAACTGATCCTTCTGGTGGTCATCGTGTTTTTCCTCTTCTGGACACCC
TACAACGTTATGATTTTCCTGGAGACGCTTAAGCTCTATGACTTCTTTCCCAGTTGTGACATGAGGAAGGATCTG
AGGCTGGCCCTCAGTGTGACTGAGACGGTTGCATTTAGCCATTGTTGCCTGAATCCTCTCATCTATGCATTTGCT
GGGGAGAAGTTCAGAAGATACCTTTACCACCTGTATGGGAAATGCCTGGCTGTCCTGTGTGGGCGCTCAGTCCAC
GTTGATTTCTCCTCATCTGAATCACAAAGGAGCAGGCATGGAAGTGTTCTGAGCAGCAATTTTACTTACCACACG
AGTGATGGAGATGCATTGCTCCTTCTC**TGA**AGGGAATCCCAAAGCCTTGTGTCTACAGAGAACCTGGAGTTCCTG
AACCTGATGCTGACTAGTGAGGAAAGATTTTTGTTGTTATTTCTTACAGGCACAAAATGATGGACCCAATGCACA
CAAAACAACCCTAGAGTGTTGTTGAGAATTGTGCTCAAAATTTGAAGAATGAACAAATTGAACTCTTTGAATGAC
AAAGAGTAGACATTTCTCTTACTGCAAATGTCATCAGAACTTTTTGGTTTGCAGATGACAAAAATTCAACTCAGA
CTAGTTTAGTTAAATGAGGGTGGTGAATATTGTTCATATTGTGGCACAAGCAAAAGGGTGTCTGAGCCCTCAAAG
TGAGGGGAAACCAGGGCCTGAGCCAAGCTAGAATTCCCTCTCTCTGACTCTCAAATCTTTTAGTCATTATAGATC
CCCCAGACTTTACATGACACAGCTTTATCACCAGAGAGGGACTGACACCCATGTTTCTCTGGCCCCAAGGGAAAA
TTCCCAGGGAAGTGCTCTGATAGGCCAAGTTTGTATCAGGTGCCCATCCCTGGAAGGTGCTGTTATCCATGGGGA
AGGGATATATAAGATGGAAGCTTCCAGTCCAATCTCATGGAGAAGCAGAAATACATATTTCCAAGAAGTTGGATG
GGTGGGTACTATTCTGATTACACAAAACAAATGCCACACATCACCCTTACCATGTGCCTGATCCAGCCTCTCCCC
TGATTACACCAGCCTCGTCTTCATTAAGCCCTCTTCCATCATGTCCCCAAACCTGCAAGGGCTCCCCACTGCCTA
CTGCATCGAGTCAAAACTCAAATGCTTGGCTTCTCATACGTCCACCATGGGGTCCTACCAATAGATTCCCCATTG
CCTCCTCCTTCCCAAAGGACTCCACCCATCCTATCAGCCTGTCTCTTCCATATGACCTCATGCATCTCCACCTGC
TCCCAGGCCAGTAAGGGAAATAGAAAAACCCTGCCCCCAAATAAGAAGGGATGGATTCCAACCCCAACTCCAGTA
GCTTGGGACAAATCAAGCTTCAGTTTCCTGGTCTGTAGAAGAGGGATAAGGTACCTTTCACATAGAGATCATCCT
TTCCAGCATGAGGAACTAGCCACCAACTCTTGCAGGTCTCAACCCTTTTGTCTGCCTCTTAGACTTCTGCTTTCC
ACACCTGCACTGCTGTGCTGTGCCCAAGTTGTGGTGCTGACAAAGCTTGGAAGAGCCTGCAGGTGCCTTGGCCGC
GTGCATAGCCCAGACACAGAAGAGGCTGGTTCTTACGATGGCACCCAGTGAGCACTCCCAAGTCTACAGAGTGAT
AGCCTTCCGTAACCCAACTCTCCTGGACTGCCTTGAATATCCCCTCCCAGTCACCTTGTGCAAGCCCCTGCCCAT
CTGGGAAAATACCCCATCATTCATGCTACTGCCAACCTGGGGAGCCAGGGCTATGGGAGCAGCTTTTTTTTCCCC
CCTAGAAACGTTTGGAACAATGTAAAACTTTAAAGCTCGAAAACAATTGTAATAATGCTAAAGAAAAAGTCATCC
AATCTAACCACATCAATATTGTCATTCCTGTATTCACCCGTCCAGACCTTGTTCACACTCTCACATGTTTAGAGT
TGCAATCGTAATGTACAGATGGTTTTATAATCTGATTTGTTTTCCTCTTAACGTTAGACCACAAATAGTGCTCGC
TTTCTATGTAGTTTGGTAATTATCATTTTAGAAGACTCTACCAGACTGTGTATTCATTGAAGTCAGATGTGGTAA
CTGTTAAATTGCTGTGTATCTGATAGCTCTTTGGCAGTCTATATGTTTGTATAATGAATGAGAGAATAAGTCATG
TTCCTTCAAGATCATGTACCCCAATTTACTTGCCATTACTCAATTGATAAACATTTAACTTGTTTCCAATGTTTA
GCAAATACATATTTTATAGAACTTC

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FIGURE 1996

MDQFPESVTENFEYDDLAEACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSKKPKSVTDIYLLNLAL
SDLLFVATLPFWTHYLINEKGLHNAMCKFTTAFFFIGFFGSIFFITVISIDRYLAIVLAANSMNNRTVQHGVTIS
LGVWAAAILVAAPQFMFTKQKENECLGDYPEVLQEIWPVLRNVETNFLGFLLPLLIMSYCYFRIIQTLFSCKNHK
KAKAIKLILLVVIVFFLFWTPYNVMIFLETLKLYDFFPSCDMRKDLRLALSVTETVAFSHCCLNPLIYAFAGEKF
RRYLYHLYGKCLAVLCGRSVHVDFSSSESQRSRHGSVLSSNFTYHTSDGDALLLL

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FIGURE 1997

GCGGAAGGAACCGCCGGGGGCC**ATG**GACGGAGCAGTGATGGAAGGGCCGCTTTTTTTGCAGAGTCAGCGCTTTGG
GACCAAGAGGTGGAGGAAGACCTGGGCCGTGCTCTACCCGGCCAGTCCCCACGGCGTAGCGCGGCTCGAGTTCTT
TGACCATAAGGGGTCGAGCTCTGGGGGTGGCCGAGGGAGCTCGCGCCGCCTGGACTGCAAAGTGATCCGTCTGGC
TGAGTGTGTGAGTGTGGCCCCCGTCACCGTGGAGACCCCCCCTGAGCCCGGCGCCACTGCCTTCCGCCTGGACAC
TGCTCAGCGCTCGCACCTGCTGGCGGCCGACGCGCCGTCCAGTGCAGCCTGGGTGCAGACGCTGTGCCGAAACGC
CTTTCCGAAAGGCAGCTGGACTCTGGCGCCTACCGATAACCCACCTAAGCTTTCTGCCCTGGAGATGCTGGAGAA
CTCCTTGTACAGCCCTACCTGGGAAGGATCCCAATTCTGGGTAACGGTGCAGAGGACTGAGGCCGCCGAGCGCTG
TGGCCTGCATGGCTCCTACGTGCTGAGGGTGGAGGCTGAAAGGCTGACTCTCCTGACCGTGGGGGCCCAGAGTCA
GATACTGGAGCCACTCCTGTCCTGGCCCTACACTCTGTTGCGTCGCTATGGCCGGGACAAGGTCATGTTCTCTTT
CGAGGCCGGCCGCCGCTGCCCCTCAGGCCCTGGAACCTTCACCTTCCAGACGGCACAGGGAAATGACATCTTCCA
GGCAGTTGAGACTGCCATCCACCGGCAGAAGGCCCAGGGAAAGGCCGGACAGGGGCACGATGTTCTCAGAGCTGA
CTCCCATGAAGGGGAGGTGGCAGAGGGGAAGTTGCCTTCCCCACCTGGCCCCCAAGAGCTCCTCGACAGTCCCCC
AGCCCTGTATGCTGAGCCCTTAGACTCCCTGCGCATTGCTCCATGCCCTTCCCAGGACTCCCTATACTCAGACCC
CTTGGACAGCACGTCTGCTCAGGCAGGAGAGGGAGTACAACGGAAGAAACCTCTCTATTGGGACTTGTATGAGCA
TGCGCAGCAGCAGTTGCTGAAGGCCAAGCTGACAGACCCCAAAGAGGATCCCATCTATGATGAACCTGAGGGCCT
GGCCCCAGTCCCTCCCCAGGGGCCTTTATGATCTGCCTCGGGAGCCCAAGGATGCATGGTGGTGCCAAGCTCGGGT
GAAGGAGGAGGGCTATGAGCTCCCCTACAACCCTGCCACTGATGACTACGCTGTGCCACCCCCTCGGAGCACAAA
GCCCCTCCTTGCTCCCAAGCCCCAGGGCCCAGCCTTCCCTGAACCTGGTACTGCAACTGGCAGTGGCATCAAAAG
CCACAACTCAGCCCTGTACAGCCAGGTCCAGAAGAGCGGGGCCTCAGGGAGCTGGGACTGTGGGCTCTCTAGAGT
AGGGACTGACAAGACTGGGGTCAAGTCAGAGGGCTCTACC**TGA**GAAGGACGGCAAGGCTGAGGTGGCTAAGGGGG
ACCATGGGGAGGTGGCACTAGGGATCAAAGAAGATGGTTAGAACCAGCAGAAGCCAGAGGGTGGGAGGGGCCATG
CTGTGTGAGACCAGGGGACCAGAGGGATGGGAGAGTCAAGGGAAGGACAATCCCAGGAAGTCCTAAGAAGTGGGG
CAGATGGCAGGGCTGAGGATGGGCTCTGCATCCCCCAAAGCCATCCCTTCCCTACTTCCCCAAATGAAGGGACGG
CTGTGGGACCAGGTCTGTGGAAAGTGGTGCATGGTCAGAATGGGTGCAGTTTGAGGGGCCTGTGTGGAGGCCTCA
GGGAGATGTTGGACTGTGCCTGGATCCTTACTCCTGCATTGTTCTTTGCCAGAGACCTATTTAAAAATTTTAAAA
TTCTCATTAAAGTCAAAAAAAAAAAAAAAAAAAA

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FIGURE 1998

MDGAVMEGPLFLQSQRFGTKRWRKTWAVLYPASPHGVARLEFFDHKGSSSGGGRGSSRRLDCKVIRLAECVSVAP
VTVETPPEPGATAFRLDTAQRSHLLAADAPSSAAWVQTLCRNAFPKGSWTLAPTDNPPKLSALEMLENSLYSPTW
EGSQFWVTVQRTEAAERCGLHGSYVLRVEAERLTLLTVGAQSQILEPLLSWPYTLLRRYGRDKVMFSFEAGRRCP
SGPGTFTFQTAQGNDIFQAVETAIHRQKAQGKAGQGHDVLRADSHEGEVAEGKLPSPPGPQELLDSPPALYAEPL
DSLRIAPCPSQDSLYSDPLDSTSAQAGEGVQRKKPLYWDLYEHAQQQLLKAKLTDPKEDPIYDEPEGLAPVPPQG
LYDLPREPKDAWWCQARVKEEGYELPYNPATDDYAVPPPRSTKPLLAPKPQGPAFPEPGTATGSGIKSHNSALYS
QVQKSGASGSWDCGLSRVGTDKTGVKSEGST

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FIGURE 1999

GCCGCTGCCACCGCACCCCGCC**ATG**GAGCGGCCGTCGCTGCGCGCCCTGCTCCTCGGCGCCGCTGGGCTGCTGCT
CCTGCTCCTGCCCCTCTCCTCTTCCTCCTCTTCGGACACCTGCGGCCCCTGCGAGCCGGCCTCCTGCCCGCCCCT
GCCCCCGCTGGGCTGCCTGCTGGGCGAGACCCGCGACGCGTGCGGCTGCTGCCCTATGTGCGCCCGCGGCGAGGG
CGAGCCGTGCGGGGGTGGCGGCGCCGGCAGGGGGTACTGCGCGCCGGGCATGGAGTGCGTGAAGAGCCGCAAGAG
GCGGAAGGGTAAAGCCGGGGCAGCAGCCGGCGGTCCGGGTGTAAGCGGCGTGTGCGTGTGCAAGAGCCGCTACCC
GGTGTGCGGCAGCGACGGCACCACCTACCCGAGCGGCTGCCAGCTGCGCGCCGCCAGCCAGAGGGCCGAGAGCCG
CGGGGAGAAGGCCATCACCCAGGTCAGCAAGGGCACCTGCGAGCAAGGTCCTTCCATAGTGACGCCCCCCAAGGA
CATCTGGAATGTCACTGGTGCCCAGGTGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCCTCATCTG
GAACAAGGTAAAAAGGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTGGCCAT
TCAGACCCGGGGTGGCCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCTCCTCTAAGTAAGGAAGATGC
TGGAGAATATGAGTGCCATGCATCCAATTCCCAAGGACAGGCTTCAGCATCAGCAAAAATTACAGTGGTTGATGC
CTTACATGAAATACCAGTGAAAAAAGGTGAAGGTGCCGAGCTA**TAA**ACCTCCAGAATATTATTAGTCTGCATGGT
TAAAAGTAGTCATGGATAACTACATTACCTGTTCTTGCCTAATAAGTTTCTTTTAATCCAATCCACTAACACTTT
AGTTATATTCACTGGTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAGACTATCTACAAAAATTTATT
ATATATTTACAGAAGAAAAGCATGCATATCATTAAACAAATAAAATACTTTTTATCACAAAAAAAAAAAAAAAA

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FIGURE 2000

MERPSLRALLLGAAGLLLLLLPLSSSSSSSDTCGPCEPASCPPLPPLGCLLGETRDACGCCPMCARGEGEPCGGGG
AGRGYCAPGMECVKSRKRRKGKAGAAAGGPGVSGVCVCKSRYPVCGSDGTTYPSGCQLRAASQRAESRGEKAITQ
VSKGTCEQGPSIVTPPKDIWNVTGAQVYLSCEVIGIPTPVLIWNKVKRGHYGVQRTELLPGDRDNLAIQTRGGPE
KHEVTGWVLVSPLSKEDAGEYECHASNSQGQASASAKITVVDALHEIPVKKGEGAEL

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FIGURE 2001

GAGACATTCCTCAATTGCTTAGACATATTCTGAGCCTACAGCAGAGGAACCTCCAGTCTCAGCACC**ATG**AATCAA
ACTGCGATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTCAAGGAGTACCTCTCTCTAGAACCGTA
CGCTGTACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAAACTTGAAATTATTCCTGCA
AGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGAGAAGAGATGTCTGAATCCAGAA
TCGAAGGCCATCAAGAATTTACTGAAAGCAGTTAGCAAGGAAATGTCTAAAAGATCTCCT**TAA**AACCAGAGGGGA
GCAAAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTGCCTCTCCCATCACTTCCCTACATGGAGTAT
ATGTCAAGCCATAATTGTTCTTAGTTTGCAGTTACACTAAAAGGTGACCAATGATGGTCACCAAATCAGCTGCTA
CTACTCCTGTAGGAAGGTTAATGTTCATCATCCTAAGCTATTCAGTAATAACTCTACCCTGGCACTATAATGTAA
GCTCTACTGAGGTGCTATGTTCTTAGTGGATGTTCTGACCCTGCTTCAAATATTTCCCTCACCTTTCCCATCTTC
CAAGGGTACTAAGGAATCTTTCTGCTTTGGGGTTTATCAGAATTCTCAGAATCTCAAATAACTAAAAGGTATGCA
ATCAAATCTGCTTTTTAAAGAATGCTCTTTACTTCATGGACTTCCACTGCCATCCTCCCAAGGGGCCCAAATTCT
TTCAGTGGCTACCTACATACAATTCCAAACACATACAGGAAGGTAGAAATATCTGAAAATGTATGTGTAAGTATT
CTTATTTAATGAAAGACTGTACAAAGTATAAGTCTTAGATGTATATATTTCCTATATTGTTTTCAGTGTACATGG
AATAACATGTAATTAAGTACTATGTATCAATGAGTAACAGGAAAATTTTAAAAATACAGATAGATATATGCTCTG
CATGTTACATAAGATAAATGTGCTGAATGGTTTTCAAATAAAAATGAGGTACTCTCCTGGAAATATTAAGAAAGA
CTATCTAAATGTTGAAAGATCAAAAGGTTAATAAAGTAATTATAACT

FIGURE 2002

MNQTAILICCLIFLTLSGIQGVPLSRTVRCTCISISNQPVNPRSLEKLEIIPASQFCPRVEIIATMKKKGEKRCL
NPESKAIKNLLKAVSKEMSKRSP

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FIGURE 2003

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CGCGGACCCGGCCGGCCCAGGCCCGCGCCCGCCGCGGCCCTGAGAGGCCCCGGCAGGTCCCGGCCCGGCGGCGGC
AGCCATGGCCGGGGGGCCGGGGCCCGGGGGAGCCCGCAGCCCCCGGCGCCCAGCACTTCTTGTACGAGGTGCCGCC
CTGGGTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTCGCCGCCCTGAT
CGTGCGCGACCAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCCTGTGGCCCTGGAT
CAACCGCAACGCCCGTGTGGCCGACCTCGTGCACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCCGAGGCCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCTGGAGCCCCCGGAAGTTGCCATCCTCAGCCTCCACCTTCCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTCAGGGCCTGAGCTCGGCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCTTCTTCTACCAAGCCAGGCCCAGAGAGCTCAGTGTCCCTCCTGCAGGGAGCCCGCCCCTCTCCGTTTTG
CTGGCCCCTCTGTGAGATTTCCCGGGGCACCCACAACTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTCACCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCCTGCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCCACCTCTCTCCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCG
GGCAATTCAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGGTTCAGCCGCTTTGCCGGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCGGACACAGACAGTGCGGGGCACCCTGGCCTACCTGCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGGAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCCAGGCCCGGGCCCTGCCCACCTGAGCTGGGCCTGGGCCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGCCAAAAGGAGGCCTCCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGTGCCCGGGCATTTGGAGGCCGCCAGCTGCATCCCCCCTTCCCCGCAGGAGAACTCCTACGTGTC
CAGCACTGGCAGAGCCCACAGTGGGGCTGCTCCATGGCAGCCCCTGGCAGCGCCATCAGGAGCCAGTGCCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCCAACCAGCCCGTGGAGAGTGACGAGAGCCTAGGCGGCCTCTCTGCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCCTCAGGGGGA
CACGGCAGGAGAATCGAGCTGGGGGAGTGGCCCAGGATCCCGGCCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCGTCAGAGCCACCGCAGATTATCATCAACCCTGCCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCGTCCAGCTCCCTCCCAGGCTTGGGCCTGGAACA
GGACAGGCAGGGGCCCGAAGAAAGTGATGAATTTCAGAGCTGATGTGTTCACCTGGGCAGATCCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGCACGAGTCCTCAGCACTCTGCCGGCAGTGGGGGTGGGGG
CCCATGCCCGCGGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAC
CCTGCCTCCATGCCAGCATCTGGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGGAGGAGAGGGGCTGCTGTGCAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCCAGGCCTCTGGCAGCAGCTCTTTGCCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCTAGGGCCCTCCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAAATTTTTTAAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTCGAGGCTGCAGTGAGTCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTTTCAAAAAGAAAAACCCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTCAGTCCTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTCAGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAAACATTTTCAGGGAAAAGACAT
GTATCACATGTCTTCAGAAGCAAGTCAGGTTTCATGTAACCGAGTGTCCTCTTGCGTGTCCAAAAGTAGCCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTTGTGTTCAGCCGTGAGTCACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCCTTGAGTAATAAAAACGTATGTTCCCTAAAAAAAAAAAAA
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FIGURE 2004

MAGGPGPGEPAAPGAQHFLYEVPPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSSASTFLSPAFPGS
QTHSGPELGLVPSPASLWPPPPSPAPSSTKPGPESSVSLLQGARPSPFCWPLCEISRGTHNFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACPPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGRLAVDTDTFSFGVVVLETLAGQRAVKTHGARTKYLKDLVEEEAEEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPPELGLGLGQLACCCLHRRAKRRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPPSPQENSYVSSTGRAHSGAAPWQPLAAPSGASAQAAEQLQRGPNQPVESDESLGGLSAALR
SWHLTPSCPLDPAPLREAGCPQGDTAGESSWGSGPGSRPTAVEGLALGSSASSSSEPPQIIINPARQKMVQKLAL
YEDGALDSLQLLSSSSLPGLGLEQDRQGPEESDEFQS

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FIGURE 2005A

ATTCAGCCGGTGCGCGCGGCGGCGGGGAGGCAGTGGCTGGGGAGTCCCGTCGACGCTCTGTTCCGAGAGCGTGCCC
CGGACCGCCAGCTCAGAACAGGGGCAGCCGTGTAGCCGAACGGAAGCTGGGAGCAGCCGGGACTGGTGGCCCGCG
CCCGAGCTCCGCAGGCGGGAAGCACCCTGGATTTGGGAAGTCCCGGGAGCAGCGCGGCGGCACCTCCCTCACCCA
AGGGGCCGCGGCGACGGTCACGGGGCGCGGCGCCACCGTGAGCGACCCAGGCCAGGATTCTAAATAGACGGCCCA
GGCTCCTCCTCCGCCCGGGCCGCCTCACCTGCGGGCATTGCCGCGCCGCCTCCGCCGGTGTAGACGGCACCTGCG
CCGCCTTGCTCGCGGGTCTCCGCCCCTCGCCCACCCTCACTGCGCCAGGCCCAGGCAGCTCACCTGTACTGGCGC
GGGCTGCGGAAGCCTGCGTGAGCCGAGGCGTTGAGGCGCGGCGCCCACGCCACTGTCCCGAGAGGACGCAGGTGG
AGCGGGCGCGGCTTCGCGGAACCCGGCGCCGGCCGCCGCAGTGGTCCCAGCCTACACCGGGTTCCGGGGACCCGG
CCGCCAGTGCCCGGGGAGTAGCCGCCGCCGTCGGCTGGGCACC**ATG**AACAGCAGCAGCGCCAACATCACCTACGC
CAGTCGCAAGCGGCGGAAGCCGGTGCAGAAAACAGTAAAGCCAATCCCAGCTGAAGGAATCAAGTCAAATCCTTC
CAAGCGGCATAGAGACCGACTTAATACAGAGTTGGACCGTTTGGCTAGCCTGCTGCCTTTCCCACAAGATGTTAT
TAATAAGTTGGACAAACTTTCAGTTCTTAGGCTCAGCGTCAGTTACCTGAGAGCCAAGAGCTTCTTTGATGTTGC
ATTAAAATCCTCCCCTACTGAAAGAAACGGAGGCCAGGATAACTGTAGAGCAGCAAATTTCAGAGAAGGCCTGAA
CTTACAAGAAGGAGAATTCTTATTACAGGCTCTGAATGGCTTTGTATTAGTTGTCACTACAGATGCTTTGGTCTT
TTATGCTTCTTCTACTATACAAGATTATCTAGGGTTTCAGCAGTCTGATGTCATACATCAGAGTGTATATGAACT
TATCCATACCGAAGACCGAGCTGAATTTCAGCGTCAGCTACACTGGGCATTAAATCCTTCTCAGTGTACAGAGTC
TGGACAAGGAATTGAAGAAGCCACTGGTCTCCCCCAGACAGTAGTCTGTTATAACCCAGACCAGATTCCTCCAGA
AAACTCTCCTTTAATGGAGAGGTGCTTCATATGTCGTCTAAGGTGTCTGCTGGATAATTCATCTGGTTTTCTGGC
AATGAATTTCCAAGGGAAGTTAAAGTATCTTCATGGACAGAAAAAGAAAGGGAAAGATGGATCAATACTTCCACC
TCAGTTGGCTTTGTTTGCGATAGCTACTCCACTTCAGCCACCATCCATACTTGAAATCCGGACCAAAAATTTTAT
CTTTAGAACCAAACACAAACTAGACTTCACACCTATTGGTTGTGATGCCAAAGGAAGAATTGTTTTAGGATATAC
TGAAGCAGAGCTGTGCACGAGAGGCTCAGGTTATCAGTTTATTCATGCAGCTGATATGCTTTATTGTGCCGAGTC
CCATATCCGAATGATTAAGACTGGAGAAAGTGGCATGATAGTTTTCCGGCTTCTTACAAAAAACAACCGATGGAC
TTGGGTCCAGTCTAATGCACGCCTGCTTTATAAAAATGGAAGACCAGATTATATCATTGTAACTCAGAGACCACT
AACAGATGAGGAAGGAACAGAGCATTTACGAAAACGAAATACGAAGTTGCCTTTTATGTTTACCACTGGAGAAGC
TGTGTTGTATGAGGCAACCAACCCTTTTCCTGCCATAATGGATCCCTTACCACTAAGGACTAAAAATGGCACTAG
TGGAAAAGACTCTGCTACCACATCCACTCTAAGCAAGGACTCTCTCAATCCTAGTTCCCTCCTGGCTGCCATGAT
GCAACAAGATGAGTCTATTTATCTCTATCCTGCTTCAAGTACTTCAAGTACTGCACCTTTTGAAAACAACTTTTT
CAACGAATCTATGAATGAATGCAGAAATTGGCAAGATAATACTGCACCGATGGGAAATGATACTATCCTGAAACA
TGAGCAAATTGACCAGCCTCAGGATGTGAACTCATTTGCTGGAGGTCACCCAGGGCTCTTTCAAGATAGTAAAAA
CAGTGACTTGTACAGCATAATGAAAAACCTAGGCATTGATTTTGAAGACATCAGACACATGCAGAATGAAAAATT
TTTCAGAAATGATTTTTCTGGTGAGGTTGACTTCAGAGACATTGACTTAACGGATGAAATCCTGACGTATGTCCA
AGATTCTTTAAGTAAGTCTCCCTTCATACCTTCAGATTATCAACAGCAACAGTCCTTGGCTCTGAACTCAAGCTG
TATGGTACAGGAACACCTACATCTAGAACAGCAACAGCAACATCACCAAAAGCAAGTAGTAGTGGAGCCACAGCA
ACAGCTGTGTCAGAAGATGAAGCACATGCAAGTTAATGGCATGTTTGAAAATTGGAACTCTAACCAATTCGTGCC
TTTCAATTGTCCACAGCAAGACCCACAACAATATAATGTCTTTACAGACTTACATGGGATCAGTCAAGAGTTCCC
CTACAAATCTGAAATGGATTCTATGCCTTATACACAGAACTTTATTTCCTGTAATCAGCCTGTATTACCACAACA
TTCCAAATGTACAGAGCTGGACTACCCTATGGGGAGTTTTGAACCATCCCCATACCCCACTACTTCTAGTTTAGA
AGATTTTGTCACTTGTTTACAACTTCCTGAAAACCAAAAGCATGGATTAAATCCACAGTCAGCCATAATAACTCC
TCAGACATGTTATGCTGGGGCCGTGTCGATGTATCAGTGCCAGCCAGAACCTCAGCACACCCACGTGGGTCAGAT
GCAGTACAATCCAGTACTGCCAGGCCAACAGGCATTTTTAAACAAGTTTCAGAATGGAGTTTTAAATGAAACATA
TCCAGCTGAATTAAATAACATAAATAACACTCAGACTACCACACATCTTCAGCCACTTCATCATCCGTCAGAAGC
CAGACCTTTTCCTGATTTGACATCCAGTGGATTCCTG**TAA**TTCCAAGCCCAATTTTGACCCTGGTTTTTGGATTA
AATTAGTTTGTGAAGGATTATGGAAAAATAAAACTGTCACTGTTGGACGTCAGCAAGTTCACATGGAGGCATTGA
TGCATGCTATTCACAATTATTCCAAACCAAATTTTAATTTTTGCTTTTAGAAAAGGGAGTTTAAAAATGGTATCA
AAATTACATATACTACAGTCAAGATAGAAAGGGTGCTGCCACGGAGTGGTGAGGTACCGTCTACATTTCACATTA
TTCTGGGCACCACAAAATATACAAAACTTTATCAGGGAAACTAAGATTCTTTTAAATTAGAAAATATTCTCTATT
TGAATTATTTCTGTCACAGTAAAAATAAAATACTTTGAGTTTTGAGCTACTGGATTCTTATTAGTTCCCCAAATA

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FIGURE 2005B

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CAAAGTTAGAGAACTAAACTAGTTTTTCCTATCATGTTAACCTCTGCTTTTATCTCAGATGTTAAAATAAATGGT
TTGGTGCTTTTTATAAAAAGATAATCTCAGTGCTTTCCTCCTTCACTGTTTCATCTAAGTGCCTCACATTTTTTT
CTACCTATAACACTCTAGGATGTATATTTTATATAAAGTATTCTTTTTCTTTTTTAAATTAATATCTTTCTGCAC
ACAAATATTATTTGTGTTTCCTAAATCCAACCAATTTTCATTAATTCAGGCATATTTTAACTCCACTGCTTACCT
ACTTTCTTCAGGTAAAAGGGCAAATAATGATCGAAAAAATAATTATTTATTACATAATTTAGTTGTTTCTAGACT
ATAAATGTTGCTATGTGCCTTATGTTGAAAAAATTTAAAAGTAAAATGTCTTTCCAAATTATTTCTTAATTATTA
TAAAAATATTAAGACAATAGCACTTAAATTCCTCAACAGTGTTTTCAGAAGAAATAAATATACCACTCTTTACCT
TTATTGATATCTCCATGATGATAGTTGAATGTTGCAATGTGAAAAATCTGCTGTTAACTGCAACCTTGTTTATTA
AATTGCAAGAAGCTTTATTTCTAGCTTTTTAATTAAGCAAAGCACCCATTTCAATGTGTATAAATTGTCTTTAAA
AACTGTTTTAGACCTATAATCCTTGATAATATATTGTGTTGACTTTATAAATTTCGCTTCTTAGAACAGTGGAAA
CTATGTGTTTTTCTCATATTTGAGGAGTGTTAAGATTGCAGATAGCAAGGTTTGGTGCAAAGTATTGTAATGAGT
GAATTGAATGGTGCATTGTATAGATATAATGAACAAAATTATTTGTAAGATATTTGCAGTTTTTCATTTTAAAAA
GTCCATACCTTATATATGCACTTAATTTGTTGGGGCTTTACATACTTTATCAATGTGTCTTTCTAAGAAATCAAG
TAATGAATCCAACTGCTTAAAGTTGGTATTAATAAAAAGACAACCACATAGTTCGTTTACCTTCAAACTTTAGGT
TTTTTTAATGATATACTGATCTTCATTACCAATAGGCAAATTAATCACCCTACCAACTTTACTGTCCTAACATGG
ACTTTCAAAAAGAAAAAATGACACCATCTTTTATTCTTTTTTTTTTTTTTTTTTGAGAGAGAGTCTTACTCTGC
CGCCCAAACTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAACCTCTACCTCCTGGGTTCAAGTGATTCTCTTG
CCTCAGCCTCCCGAGTTGCTGGGATTGCGGGCATGGTGGCGTGAGCCTGTAGTCCTAGCTACTCGGGAGGCTGAG
GCAGGAGAATAGCCTGAACCTGGGAATCGGAGGTTGCAGGGCCAAGATCGCCCCACTGCACTCCAGCCTGGCAAT
AGACCGAGCTCCGTCTCCAAAAAAAAAAAATACAATTTTTATTTCTTTTACTTTTTTTAGTAAGTTAATGTATATA
AAAATGGCTTCGGACAAAATATCTCTGAGTTCTGTGTATTTTCAGTCAAAACTTTAAACCTGTAGAATCAATTTA
AGTGTTGAAAAAAATTTGTCTGAAACATTTCATAATTTGTTTCCAGCATGAGGTATCTAAGGATTTAGACCAGAG
GTCTAGATTAATACTCTATTTTTACATTTAAACCTTTTATTATAAGTCTTACATAAACCATTTTTGTTACTCTCT
TCCACATGTTACTGGATAAATTGTTTAGTGGAAAATAGGCTTTTTAATCATGAATATGATGACAATCAGTTATAC
AGTTATAAAATTAAAAGTTTGAAAAGCAATATTGTATATTTTTATCTATATAAAATAACTAAAATGTATCTAAGA
ATAATAAAATCACGTTAAACC
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FIGURE 2006

MNSSSANITYASRKRRKPVQKTVKPIPAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDVINKLDKLSVLRLSVS
YLRAKSFFDVALKSSPTERNGGQDNCRAANFREGLNLQEGEFLLQALNGFVLVVTTDALVFYASSTIQDYLGFQQ
SDVIHQSVYELIHTEDRAEFQRQLHWALNPSQCTESGQGIEEATGLPQTVVCYNPDQIPPENSPLMERCFICRLR
CLLDNSSGFLAMNFQGKLKYLHGQKKKGKDGSILPPQLALFAIATPLQPPSILEIRTKNFIFRTKHKLDFTPIGC
DAKGRIVLGYTEAELCTRGSGYQFIHAADMLYCAESHIRMIKTGESGMIVFRLLTKNNRWTWVQSNARLLYKNGR
PDYIIVTQRPLTDEEGTEHLRKRNTKLPFMFTTGEAVLYEATNPFPAIMDPLPLRTKNGTSGKDSATTSTLSKDS
LNPSSLLAAMMQQDESIYLYPASSTSSTAPFENNFFNESMNECRNWQDNTAPMGNDTILKHEQIDQPQDVNSFAG
GHPGLFQDSKNSDLYSIMKNLGIDFEDIRHMQNEKFFRNDFSGEVDFRDIDLTDEILTYVQDSLSKSPFIPSDYQ
QQQSLALNSSCMVQEHLHLEQQQQHHQKQVVVEPQQQLCQKMKHMQVNGMFENWNSNQFVPFNCPQQDPQQYNVF
TDLHGISQEFPYKSEMDSMPYTQNFISCNQPVLPQHSKCTELDYPMGSFEPSPYPTTSSLEDFVTCLQLPENQKH
GLNPQSAIITPQTCYAGAVSMYQCQPEPQHTHVGQMQYNPVLPGQQAFLNKFQNGVLNETYPAELNNINNTQTTT
HLQPLHHPSEARPFPDLTSSGFL

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FIGURE 2007

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AAAGAACCGCACACCACAGACTCCCTCCAGCTCTTTGTGTGTGGCTCTCTCAGGGTCCAACAAGAGCAAGCTGTG
GGTCTGTGAGTGTTTATGTGTGCTTTTATTCACTTCACACTTATTGAAAAGTGTGTATGTGAGAGGGTGGGGTGT
GTGTGTCAAAGAGAGTGAGGAAGAGAAGGAGAGAGAGATCAATTGATTCTGCAGCCTCAGCTCCAGCATCCCTCA
GTTGGGAGCTTCCAAAGCCGGGTGATCACTTGGGGTGCATAGCTCGGAGATGCAGTCCCCCTGGAAAATCCTTAC
GGTGGCGCCTCTATTCTTGCTCCTGTCTCTTCAGTCCTCGGCCTCTCCAGCCAACGATGACCAGTCCAGGCCCAG
CCTCTCGAATGGGCACACCTGTGTAGGGTGTGTGCTGGTGGTGTCTGTAATAGAACAGCTTGCTCAAGTTCACAA
CTCGACGGTCCAGGCCTCGATGGAGAGACTGTGCAGCTACCTGCCTGAAAAACTGTTCTTGAAAACCACCTGCTA
TTTAGTCATTGACAAGTTTGGATCAGACATCATAAAACTGCTTAGCGCAGATATGAATGCTGATGTGGTATGTCA
CACTCTGGAGTTTTGTAAACAGAACACTGGCCAACCATTGTGTCATCTCTACCCTCTTCCCAAGGAGACATGGAA
ATTTACACTACAGAAGGCAAGACAAATTGTCAAGAAGTCCCCGATTCTGAAATATTCTAGAAGTGGTTCTGACAT
TTGTTCACTCCCGGTTTTGGCCAAGATCTGCCAGAAAATTAAATTAGCTATGGAACAGTCTGTGCCATTCAAAGA
TGTGGATTCAGACAAATACAGCGTTTTCCCAACACTGCGGGGCTATCACTGGCGGGGGGAGAGACTGTAATGACAG
CGACGAGTCAGTGTACCCAGGTAGAAGGCCGAACAACTGGGATGTCCATCAGGATTCAAACTGTAATGGCATTTG
GGGTGTCGATCCAAAAGATGGAGTTCCATATGAGAAGAAATTCTGTGAAGGTTCACAGCCCAGGGGAATCATTTT
GCTGGGAGACTCAGCTGGGGCTCATTTTCACATCTCTCCTGAATGGATCACAGCGTCGCAGATGTCTTTGAACTC
TTTCATCAATCTACCAACAGCCCTTACCAACGAGCTTGACTGGCCCCAACTCTCTGGTGCTACAGGATTTCTGGA
CTCCACTGTTGGAATTAAAGAAAAATCTATTTACCTTCGCTTATGGAAAAGAAACCACTGTAATCACAGGGACTA
CCAGAATATTTCAAGAAATGGTGCATCTTCCCGAAACCTGAAGAAATTTATAGAAAGCTTGTCTAGAAACAAGGT
GTTGGACTATCCCGCCATCGTTATATATGCCATGATTGGAAATGATGTCTGCAGTGGGAAGAGTGACCCAGTCCC
AGCCATGACCACTCCTGAGAAACTCTACTCCAACGTCATGCAGACTCTGAAGCATCTAAATTCCCACCTGCCCAA
TGGCAGCCATGTTATTTTTGTATGGCTTACCAGATGGAACCTTTCTCTGGGATAATTTGCACAACAGATATCATCC
TCTCGGCCAGCTAAATAAAGACATGACCTATGCGCAGTTGTACTCCTTCCTGAACTGCCTCCAGGTCAGCCCCTG
CCACGGCTGGATGTCTTCCAACAAGACGTTGCGGACTCTCACTTCAGAGAGAGCAGAGCAACTCTCCAACACACT
GAAAAAAATTGCAGCCAGTGAGAAATTTACAAACTTCAATCTĬTTCTACATGGATTTTGCCTTCCATGAAATCAT
ACAGGAGTGGCAGAAGAGAGGCGGACAGCCCTGGCAGCTCATCGAGCCCGTGGATGGATTCCACCCCAACGAGGT
GGCTTTGCTGTTGTTGGCGGATCATTTCTGGAAAAAGGTGCAGCTCCAGTGGCCCCAAATCCTGGGAAAGGAGAA
TCCGTTCAACCCCCAGATTAAACAGGTGTTTGGAGACCAAGGCGGGCAC**TGA**GCCTCTCAGGAGCATGCACCCCT
GGGGAGCACAGGGAGGCAGAGGCTTGGGTAAACTCATTCCACAAACCCTATGGGGGCTGCCACGTCACAGGCCCA
AAGGACTCTTCTTCAGCAGCATCTTTGCAAAATGTCTTTCTCTCAATGAAGAGCATATCTGGACGACTGTGCAAT
GCTGTGTGCTCCCGGGGATCAGTAACCCTTCCGCTGTTCCTGAAATAACCTTTCATAAAGTGCTTTGGGTGCCAT
TCCA
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FIGURE 2008

MQSPWKILTVAPLFLLLSLQSSASPANDDQSRPSLSNGHTCVGCVLVVSVIEQLAQVHNSTVQASMERLCSYLPE
KLFLKTTCYLVIDKFGSDIIKLLSADMNADVVCHTLEFCKQNTGQPLCHLYPLPKETWKFTLQKARQIVKKSPIL
KYSRSGSDICSLPVLAKICQKIKLAMEQSVPFKDVDSDKYSVFPTLRGYHWRGRDCNDSDESVYPGRRPNNWDVH
QDSNCNGIWGVDPKDGVPYEKKFCEGSQPRGIILLGDSAGAHFHISPEWITASQMSLNSFINLPTALTNELDWPQ
LSGATGFLDSTVGIKEKSIYLRLWKRNHCNHRDYQNISRNGASSRNLKKFIESLSRNKVLDYPAIVIYAMIGNDV
CSGKSDPVPAMTTPEKLYSNVMQTLKHLNSHLPNGSHVILYGLPDGTFLWDNLHNRYHPLGQLNKDMTYAQLYSF
LNCLQVSPCHGWMSSNKTLRTLTSERAEQLSNTLKKIAASEKFTNFNLFYMDFAFHEIIQEWQKRGGQPWQLIEP
VDGFHPNEVALLLLADHFWKKVQLQWPQILGKENPFNPQIKQVFGDQGGH

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FIGURE 2009

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CCTAAGATGAGCTTTCCATGTAAATTTGTAGCCAGCTTCCTTCTGATTTTCAATGTTTCTTCCAAAGGTGCAGTC
TCCAAAGAGATTACGAATGCCTTGGAAACCTGGGGTGCCTTGGGTCAGGACATCAACTTGGACATTCCTAGTTTT
CAAATGAGTGATGATATTGACGATATAAAATGGGAAAAAACTTCAGACAAGAAAAAGATTGCACAATTCAGAAAA
GAGAAAGAGACTTTCAAGGAAAAAGATACATATAAGCTATTTAAAAATGGAACTCTGAAAATTAAGCATCTGAAG
ACCGATGATCAGGATATCTACAAGGTATCAATATATGATACAAAAGGAAAAAATGTGTTGGAAAAAATATTTGAT
TTGAAGATTCAAGAGAGGGTCTCAAAACCAAAGATCTCCTGGACTTGTATCAACACAACCCTGACCTGTGAGGTA
ATGAATGGAACTGACCCCGAATTAAACCTGTATCAAGATGGGAAACATCTAAAACTTTCTCAGAGGGTCATCACA
CACAAGTGGACCACCAGCCTGAGTGCAAAATTCAAGTGCACAGCAGGGAACAAAGTCAGCAAGGAATCCAGTGTC
GAGCCTGTCAGCTGTCCAGAGAAAGGTCTGGACATCTATCTCATCATTGGCATATGTGGAGGAGGCAGCCTCTTG
ATGGTCTTTGTGGCACTGCTCGTTTTCTATATCACCAAAAGGAAAAAACAGAGGAGTCGGAGAAATGATGAGGAG
CTGGAGACAAGAGCCCACAGAGTAGCTACTGAAGAAAGGGGCCGGAAGCCCCAACAAATTCCAGCTTCAACCCCT
CAGAATCCAGCAACTTCCCAACATCCTCCTCCACCACCTGGTCATCGTTCCCAGGCACCTAGTCATCGTCCCCCG
CCTCCTGGACACCGTGTTCAGCACCAGCCTCAGAAGAGGCCTCCTGCTCCGTCGGGCACACAAGTTCACCAGCAG
AAAGGCCCGCCCCTCCCCAGACCTCGAGTTCAGCCAAAACCTCCCCATGGGGCAGCAGAAAACTCATTGTCCCCT
TCCTCTAATTAAAAAAGATAGAAACTGTCTTTTTCAATAAAAAGCACTGTGGATTTCTGCCCTCCTGATGTGCAT
ATCCGTACTTCCATGAGGTGTTTTCTGTGTGCAGAACATTGTCACCTCCTGAGGCTGTGGGCCACAGCCACCTCT
GCATCTTCGAACTCAGCCATGTGGTCAACATCTGGAGTTTTTGGTCTCCTCAGAGAGCTCCATCACACCAGTAAG
GAGAAGCAATATAAGTGTGATTGCAAGAATGGTAGAGGACCGAGCACAGAAATCTTAGAGATTTCTTGTCCCCTC
TCAGGTCATGTGTAGATGCGATAAATCAAGTGATTGGTGTGCCTGGGTCTCACTACAAGCAGCCTATCTGCTTAA
GAGACTCTGGAGTTTCTTATGTGCCCTGGTGGACACTTGCCCACCATCCTGTGAGTAAAAGTGAAATAAAAGCTT
TGAC
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FIGURE 2010

MSFPCKFVASFLLIFNVSSKGAVSKEITNALETWGALGQDINLDIPSFQMSDDIDDIKWEKTSDKKKIAQFRKEK
ETFKEKDTYKLFKNGTLKIKHLKTDDQDIYKVSIYDTKGKNVLEKIFDLKIQERVSKPKISWTCINTTLTCEVMN
GTDPELNLYQDGKHLKLSQRVITHKWTTSLSAKFKCTAGNKVSKESSVEPVSCPEKGLDIYLIIGICGGGSLLMV
FVALLVFYITKRKKQRSRRNDEELETRAHRVATEERGRKPQQIPASTPQNPATSQHPPPPPGHRSQAPSHRPPPP
GHRVQHQPQKRPPAPSGTQVHQQKGPPLPRPRVQPKPPHGAAENSLSPSSN

FIGURE 2011

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CCATCCCATAGTGAGGGAAGACACGCGGAAACAGGCTTGCACCCAGACACGACACCATGCATCTCCTCGGCCCCT
GGCTCCTGCTCCTGGTTCTAGAATACTTGGCTTTCTCTGACTCAAGTAAATGGGTTTTTGAGCACCCTGAAACCC
TCTACGCCTGGGAGGGGGCCTGCGTCTGGATCCCCTGCACCTACAGAGCCCTAGATGGTGACCTGGAAAGCTTCA
TCCTGTTCCACAATCCTGAGTATAACAAGAACACCTCGAAGTTTGATGGGACAAGACTCTATGAAAGCACAAAGG
ATGGGAAGGTTCCTTCTGAGCAGAAAAGGGTGCAATTCCTGGGAGACAAGAATAAGAACTGCACACTGAGTATCC
ACCCGGTGCACCTCAATGACAGTGGTCAGCTGGGGCTGAGGATGGAGTCCAAGACTGAGAAATGGATGGAACGAA
TACACCTCAATGTCTCTGAAAGGCCTTTTCCACCTCATATCCAGCTCCCTCCAGAAATTCAAGAGTCCCAGGAAG
TCACTCTGACCTGCTTGCTGAATTTCTCCTGCTATGGGTATCCGATCCAATTGCAGTGGCTCCTAGAGGGGGTTC
CAATGAGGCAGGCTGCTGTCACCTCGACCTCCTTGACCATCAAGTCTGTCTTCACCCGGAGCGAGCTCAAGTTCT
CCCCACAGTGGAGTCACCATGGGAAGATTGTGACCTGCCAGCTTCAGGATGCAGATGGGAAGTTCCTCTCCAATG
ACACGGTGCAGCTGAACGTGAAGCACACCCCGAAGTTGGAGATCAAGGTCACTCCCAGTGATGCCATAGTGAGGG
AGGGGGACTCTGTGACCATGACCTGCGAGGTCAGCAGCAGCAACCCGGAGTACGACGGTATCCTGGCTCAAGG
ATGGGACCTCGCTGAAGAAGCAGAATACATTCACGCTAAACCTGCGCGAAGTGACCAAGGACCAGAGTGGGAAGT
ACTGCTGTCAGGTCTCCAATGACGTGGGCCCGGGAAGGTCGGAAGAAGTGTTCCTGCAAGTGCAGTATGCCCCGG
AACCTTCCACGGTTCAGATCCTCCACTCACCGGCTGTGGAGGGAAGTCAAGTCGAGTTTCTTTGCATGTCACTGG
CCAATCCTCTTCCAACAAATTACACGTGGTACCACAATGGGAAAGAAATGCAGGGAAGGACAGAGGAGAAAGTCC
ACATCCCAAAGATCCTCCCCTGGCACGCTGGGACTTATTCCTGTGTGGCAGAAAACATTCTTGGTACTGGACAGA
GGGGCCCGGGAGCTGAGCTGGATGTCCAGTATCCTCCCAAGAAGGTGACCACAGTGATTCAAAACCCCATGCCGA
TTCGAGAAGGAGACACAGTGACCCTTTCCTGTAACTACAATTCCAGTAACCCCAGTGTTACCCGGTATGAATGGA
AACCCCATGGCGCCTGGGAGGAGCCATCGCTTGGGGTGCTGAAGATCCAAAACGTTGGCTGGGACAACACAACCA
TCGCCTGCGCACGTTGTAATAGTTGGTGCTCGTGGGCCTCCCCTGTCGCCCTGAATGTCCAGTATGCCCCCCGAG
ACGTGAGGGTCCGGAAAATCAAGCCCCTTTCCGAGATTCACTCTGGAAACTCGGTCAGCCTCCAATGTGACTTCT
CAAGCAGCCACCCCAAAGAAGTCCAGTTCTTCTGGGAGAAAAATGGCAGGCTTCTGGGGAAAGAAAGCCAGCTGA
ATTTTGACTCCATCTCCCCAGAAGATGCTGGGAGTTACAGCTGCTGGGTGAACAACTCCATAGGACAGACAGCGT
CCAAGGCCTGGACACTTGAAGTGCTGTATGCACCCAGGAGGCTGCGTGTGTCCATGAGCCCGGGGGGACCAAGTGA
TGGAGGGGAAGAGTGCAACCCTGACCTGTGAGAGTGACGCCAACCCTCCCGTCTCCCACTACACCTGGTTTGACT
GGAATAACCAAAGCCTCCCCCACCACAGCCAGAAGCTGAGATTGGAGCCGGTGAAGGTCCAGCACTCGGGTGCCT
ACTGGTGCCAGGGGACCAACAGTGTGGGCAAGGGCCGTTCGCCTCTCAGCACCCTTACTGTCTACTATAGCCCGG
AGACCATCGGCAGGCGAGTGGCTGTGGGACTCGGGTCCTGCCTCGCCATCCTCATCCTGGCAATCTGTGGGCTCA
AGCTCCAGCGACGTTGGAAGAGGACACAGAGCCAGCAGGGGCTTCAGGAGAATTCCAGCGGCCAGAGCTTCTTTG
TGAGGAATAAAAAAGGTTAGAAGGGCCCCCCTCTCTGAAGGCCCCCACTCCCTGGGATGCTACAATCCAATGATGG
AAGATGGCATTAGCTACACCACCCTGCGCTTTCCCGAGATGAACATACCACGAACTGGAGATGCAGAGTCCTCAG
AGATGCAGAGACCTCCCCGGACCTGCGATGACACGGTCACTTATTCAGCATTGCACAAGCGCCAAGTGGGCGACT
ATGAGAACGTCATTCCAGATTTTCCAGAAGATGAGGGGATTCATTACTCAGAGCTGATCCAGTTTGGGGTCGGGG
AGCGGCCTCAGGCACAAGAAAATGTGGACTATGTGATCCTCAAACATTGACACTGGATGGGCTGCAGCAGAGGCA
CTGGGGGCAGCGGGGGCCAGGGAAGTCCCCGAGTTTCCCCAGACACCGCCACATGGCTTCCTCCTGCGTGCATGT
GCGCACACACACACACACGCACACACACACACACACTCACTGCGGAGAACCTTGTGCCTGGCTCAGAGCCA
GTCTTTTTGGTGAGGGTAACCCCAAACCTCCAAAACTCCTGCCCCTGTTCTCTTCCACTCTCCTTGCTACCCAGA
AATCATCTAAATACCTGCCCTGACATGCACACCTCCCCTGCCCCACCAGCCCACTGGCCATCTCCACCCGGAGCT
GCTGTGTCCTCTGGATCTGCTCGTCATTTTCCTTCCCTTCTCCATCTCTCTGGCCCTCTACCCCTGATCTGACAT
CCCCACTCACGAATATTATGCCCAGTTTCTGCCTCTGAGGGAAAGCCCAGAAAAGGACAGAAACGAAGTAGAAAG
GGGCCCAGTCCTGGCCTGGCTTCTCCTTTGGAAGTGAGGCATTGCACGGGGAGACGTACGTATCAGCGGCCCCTT
GACTCTGGGGACTCCGGGTTTGAGATGGACACACTGGTGTGGATTAACCTGCCAGGGAGACAGAGCTCACAATAA
AAATGGCTCAGATGCCACTTCAAAGAAAAAAAAAA
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FIGURE 2012

MHLLGPWLLLLVLEYLAFSDSSKWVFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSKFDGTR
LYESTKDGKVPSEQKRVQFLGDKNKNCTLSIHPVHLNDSGQLGLRMESKTEKWMERIHLNVSERPFPPHIQLPPE
IQESQEVTLTCLLNFSCYGYPIQLQWLLEGVPMRQAAVTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDAD
GKFLSNDTVQLNVKHTPKLEIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVT
KDQSGKYCCQVSNDVGPGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSLANPLPTNYTWYHNGKEMQG
RTEEKVHIPKILPWHAGTYSCVAENILGTGQRGPGAELDVQYPPKKVTTVIQNPMPIREGDTVTLSCNYNSSNPS
VTRYEWKPHGAWEEPSLGVLKIQNVGWDNTTIACARCNSWCSWASPVALNVQYAPRDVRVRKIKPLSEIHSGNSV
SLQCDFSSSHPKEVQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNSIGQTASKAWTLEVLYAPRRLRVSM
SPGDQVMEGKSATLTCESDANPPVSHYTWFDWNNQSLPHHSQKLRLEPVKVQHSGAYWCQGTNSVGKGRSPLSTL
TVYYSPETIGRRVAVGLGSCLAILILAICGLKLQRRWKRTQSQQGLQENSSGQSFFVRNKKVRRAPLSEGPHSLG
CYNPMMEDGISYTTLRFPEMNIPRTGDAESSEMQRPPRTCDDTVTYSALHKRQVGDYENVIPDFPEDEGIHYSEL
IQFGVGERPQAQENVDYVILKH

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FIGURE 2013

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GTCTCCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAGATGTCAGCCCAG
GAGAGCTGCCTCAGCCTCATCAAGTACTTCCTCTTCGTTTTCAACCTCTTCTTCTTCGTCCTCGGCAGCCTGATC
TTCTGCTTCGGCATCTGGATCCTCATCGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG
CAGATCTGGTCCAAAGTCCTGGCCATCTCAGGAATCTTCACCATGGGCATCGCCCTCCTGGGTTGTGTGGGGGCC
CTCAAGGAGCTCCGCTGCCTCCTGGGCCTGTATTTTGGGATGCTGCTGCTCCTGTTTGCCACACAGATCACCCTG
GGAATCCTCATCTCCACTCAGCGGGCCCAGCTGGAGCGAAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAG
TACGGCACCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGGACTATGTGCAGTTCCAGCTGCGCTGCTGCGGC
TGGCACTACCCGCAGGACTGGTTCCAAGTCCTCATCCTGAGAGGTAACGGGTCGGAGGCGCACCGCGTGCCCTGC
TCCTGCTACAACTTGTCGGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTCGGCCTA
CTCGAGCTCGGGTTCATGACGCTCTCGATATTCCTGTGCAGAAACCTGGACCACGTCTACAACCGGCTCGCTCGA
TACCGTTAGGCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT
AAATATTTGTTTAATCCCCAGTTCGCCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG
CCCCTGCTGCTGTCACCTCTCCCACGGGACCTGGGGCTTTCGTCCACAGCTTCCTGTCCCCATCTGTCGGCCTAC
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FIGURE 2014

MSAQESCLSLIKYFLFVFNLFFFVLGSLIFCFGIWILIDKTSFVSFVGLAFVPLQIWSKVLAISGIFTMGIALLG
CVGALKELRCLLGLYFGMLLLLFATQITLGILISTQRAQLERSLRDVVEKTIQKYGTNPEETAAEESWDYVQFQL
RCCGWHYPQDWFQVLILRGNGSEAHRVPCSCYNLSATNDSTILDKVILPQLSRLGHLARSRHSADICAVPAESHI
YREGCAQGLQKWLHNNLISIVGICLGVGLLELGFMTLSIFLCRNLDHVYNRLARYR

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FIGURE 2015

TGCTGCAACTCAAACTAACCAACCCACTGGGAGAAG**ATG**CCTGGGGGTCCAGGAGTCCTCCAAGCTCTGCCTGCC
ACCATCTTCCTCCTCTTCCTGCTGTCTGCTGTCTACCTGGGCCCTGGGTGCCAGGCCCTGTGGATGCACAAGGTC
CCAGCATCATTGATGGTGAGCCTGGGGGAAGACGCCCACTTCCAATGCCCGCACAATAGCAGCAACAACGCCAAC
GTCACCTGGTGGCGCGTCCTCCATGGCAACTACACGTGGCCCCCTGAGTTCTTGGGCCCGGGCGAGGACCCCAAT
GGTACGCTGATCATCCAGAATGTGAACAAGAGCCATGGGGGCATATACGTGTGCCGGGTCCAGGAGGGCAACGAG
TCATACCAGCAGTCCTGCGGCACCTACCTCCGCGTGCGCCAGCCGCCCCCCAGGCCCTTCCTGGACATGGGGGAG
GGCACCAAGAACCGAATCATCACAGCCGAGGGGATCATCCTCCTGTTCTGCGCGGTGGTGCCTGGGACGCTGCTG
CTGTTCAGGAAACGATGGCAGAACGAGAAGCTCGGGTTGGATGCCGGGGATGAATATGAAGATGAAAACCTTTAT
GAAGGCCTGAACCTGGACGACTGCTCCATGTATGAGGACATCTCCCGGGGCCTCCAGGGCACCTACCAGGATGTG
GGCAGCCTCAACATAGGAGATGTCCAGCTGGAGAAGCCGTGACACCCCTACTCCTGCCAGGCTGCCCCCGCCTGC
TGTGCACCCAGCTCCAGTGTCTCAGCTCACTTCCCTGGGACATTCTCCTTTCAGCCCTTCTGGGGGCTTCCTTAG
TCATATTCCCCCAGTGGGGGGTGGGAGGGTAACCTCACTCTTCTCCAGGCCAGGCCTCCTTGGACTCCCCTGGGG
GTGTCCCACTCTTCTTCCCTCTAAACTGCCCCACCTCCTAACCTAATCCCCACGCCCCGCTGCCTTTCCCAGGCT
CCCCTCACCCAGCGGGTAATGAGCCCTTAATCGCTGCCTCTAGGGGAGCTGATTGTAGCAGCCTCGTTAGTGTCA
CCCCCTCCTCCCTGATCTGTCAGGGCCACTTAGTGATAATAAATTCTTCCCAACTGC

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FIGURE 2016

MPGGPGVLQALPATIFLLFLLSAVYLGPGCQALWMHKVPASLMVSLGEDAHFQCPHNSSNNANVTWWRVLHGNYT
WPPEFLGPGEDPNEPPPRPFLDMGEGTKNRIITAEGIILLFCAVVPGTLLLFRKRWQNEKLGLDAGDEYEDENLY
EGLNLDDCSMYEDISRGLQGTYQDVGSLNIGDVQLEKP

FIGURE 2017A

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GCCCTCCCAGAGCTGCCGGACGCTCGCGGGTCTCGGAACGCATCCCGCCGCGGGGGCTTCGGCCGTGGCATGGGC
GCCGCGGGCCTGCTCGGGGTTTTCTTGGCTCTCGTCGCACCGGGGGTCCTCGGGATTTCTTGTGGCTCTCCTCCG
CCTATCCTAAATGGCCGGATTAGTTATTATTCTACCCCCATTGCTGTTGGTACCGTGATAAGGTACAGTTGTTCA
GGTACCTTCCGCCTCATTGGAGAAAAAAGTCTATTATGCATAACTAAAGACAAAGTGGATGGAACCTGGGATAAA
CCTGCTCCTAAATGTGAATATTTCAATAAATATTCTTCTTGCCCTGAGCCCATAGTACCAGGAGGATACAAAATT
AGAGGCTCTACACCCTACAGACATGGTGATTCTGTGACATTTGCCTGTAAAACCAACTTCTCCATGAACGGAAAC
AAGTCTGTTTGGTGTCAAGCAAATAATATGTGGGGGCCGACACGACTACCAACCTGTGTAAGTGTTTTCCCTCTC
GAGTGTCCAGCACTTCCTATGATCCACAATGGACATCACACAAGTGAGAATGTTGGCTCCATTGCTCCAGGATTG
TCTGTGACTTACAGCTGTGAATCTGGTTACTTGCTTGTTGGAGAAAAGATCATTAACTGTTTGTCTTCGGGAAAA
TGGAGTGCTGTCCCCCCCCACATGTGAAGAGGCACGCTGTAAATCTCTAGGACGATTTCCCAATGGGAAGGTAAAG
GAGCCTCCAATTCTCCGGGTTGGTGTAACTGCAAACTTTTTCTGTGATGAAGGGTATCGACTGCAAGGCCCACCT
TCTAGTCGGTGTGTAATTGCTGGACAGGGAGTTGCTTGGACCAAAATGCCAGTATGTGAAGAAATTTTTTGCCCA
TCACCTCCCCCTATTCTCAATGGAAGACATATAGGCAACTCACTAGCAAATGTCTCATATGGAAGCATAGTCACT
TACACTTGTGACCCGGACCCAGAGGAAGGAGTGAACTTCATCCTTATTGGAGAGAGCACTCTCCGTTGTACAGTT
GATAGTCAGAAGACTGGGACCTGGAGTGGCCCTGCCCCACGCTGTGAACTTTCTACTTCTGCGGTTCAGTGTCCA
CATCCCCAGATCCTAAGAGGCCGAATGGTATCTGGGCAGAAAGATCGATATACCTATAACGACACTGTGATATTT
GCTTGCATGTTTGGCTTCACCTTGAAGGGCAGCAAGCAAATCCGATGCAATGCCCAAGGCACATGGGAGCCATCT
GCACCAGTCTGTGAAAAGGAATGCCAGGCCCCTCCTAACATCCTCAATGGGCAAAAGGAAGATAGACACATGGTC
CGCTTTGACCCTGGAACATCTATAAAATATAGCTGTAACCCTGGCTATGTGCTGGTGGGAGAAGAATCCATACAG
TGTACCTCTGAGGGGGTGTGGACACCCCCTGTACCCCAATGCAAAGTGGCAGCGTGTGAAGCTACAGGAAGGCAA
CTCTTGACAAAACCCCAGCACCAATTTGTTAGACCAGATGTCAACTCTTCTTGTGGTGAAGGGTACAAGTTAAGT
GGGAGTGTTTATCAGGAGTGTCAAGGCACAATTCCTTGGTTTATGGAGATTCGTCTTTGTAAAGAAATCACCTGC
CCACCACCCCCTGTTATCTACAATGGGGCACACACCGGGAGTTCCTTAGAAGATTTTCCATATGGAACCACGGTC
ACTTACACATGTAACCCTGGGCCAGAAAGAGGAGTGGAATTCAGCCTCATTGGAGAGAGCACCATCCGTTGTACA
AGCAATGATCAAGAAGAGGCACCTGGAGTGGCCCTGCTCCCCTATGTAAACTTTCCCTCCTTGCTGTCCAGTGC
TCACATGTCCATATTGCAAATGGATACAAGATATCTGGCAAGGAAGCCCCATATTTCTACAATGACACTGTGACA
TTCAAGTGTTATAGTGGATTTACTTTGAAGGGCAGTAGTCAGATTCGTTGCAAAGCTGATAACACCTGGGATCCT
GAAATACCAGTTTGTGAAAAAGAAACATGCCAGCATGTGAGACAGAGTCTTCAAGAACTTCCAGCTGGTTCACGT
GTGGAGCTAGTTAATACGTCCTGCCAAGATGGGTACCAGTTGACTGGACATGCTTATCAGATGTGTCAAGATGCT
GAAAATGGAATTTGGTTCAAAAAGATTCCACTTTGTAAAGTTATTCACTGTCACCCTCCACCAGTGATTGTCAAT
GGGAAGCACACAGGGATGATGGCAGAAAACTTTCTATATGGAAATGAAGTCTCTTATGAATGTGACCAAGGATTC
TATCTCCTGGGAGAGAAAAAATTGCAGTGCAGAAGTGATTCTAAAGGACATGGATCTTGGAGCGGGCCTTCCCCA
CAGTGCTTACGATCTCCTCCTGTGACTCGCTGCCCTAATCCAGAAGTCAAACATGGGTACAAGCTCAATAAAACA
CATTCTGCATATTCCCACAATGACATAGTGTATGTTGACTGCAATCCTGGCTTCATCATGAATGGTAGTCGCGTG
ATTAGGTGTCATACTGATAACACATGGGTGCCAGGTGTGCCAACTTGTATGAAAAAAGCCTTCATAGGGTGTCCA
CCTCCGCCTAAGACCCCTAACGGGAACCATACTGGTGGAAACATAGCTCGATTTTCTCCTGGAATGTCAATCCTG
TACAGCTGTGACCAAGGCTACCTGCTGGTGGGAGAGGCACTCCTTCTTTGCACACATGAGGGAACCTGGAGCCAA
CCTGCCCCTCATTGTAAAGAGGTAAACTGTAGCTCACCAGCAGATATGGATGGAATCCAGAAAGGGCTGGAACCA
AGGAAAATGTATCAGTATGGAGCTGTTGTAACTCTGGAGTGTGAAGATGGGTATATGCTGGAAGGCAGTCCCCAG
AGCCAGTGCCAATCGGATCACCAATGGAACCCTCCCCTGGCGGTTTGCAGATCCCGTTCACTTGCTCCTGTCCTT
TGTGGTATTGCTGCAGGTTTGATACTTCTTACCTTCTTGATTGTCATTACCTTATACGTGATATCAAAACACAGA
GAACGCAATTATTATACAGATACAAGCCAGAAAGAAGCTTTTCATTTAGAAGCACGAGAAGTATATTCTGTTGAT
CCATACAACCCAGCCAGCTGATCAGAAGACAAACTGGTGTGTGCCTCATTGCTTGGAATTCAGCGGAATATTGAT
TAGAAAGAAACTGCTCTAATATCAGCAAGTCTCTTTATATGGCCTCAAGATCAATGAAATGATGTCATAAGCGAT
CACTTCCTATATGCACTTATTCTCAAGAAGAACATCTTTATGGTAAAGATGGGAGCCCAGTTTCACTGCCATATA
CTCTTCAAGGACTTTCTGAAGCCTCACTTATGAGATGCCTGAAGCCAGGCCATGGCTATAAACAATTACATGGCT
CTAAAAAGTTTTGCCCTTTTTAAGGAAGGCACTAAAAAGAGCTGTCCTGGTATCTAGACCCATCTTCTTTTTGAA
ATCAGCATACTCAATGTTACTATCTGCTTTTGGTTATAATGTGTTTTTAATTATCTAAAGTATGAAGCATTTTCT
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FIGURE 2017B

GGGGTTATGATGGCCTTACCTTTATTAGGAAGTATGGTTTTATTTTGATAGTAGCTTCCTCCTCTGGTGGTGTTA
ATCATTTCATTTTTACCCTTACTGTTTGAGTTTCTCTCACATTACTGTATATACTTTGCCTTTCCATAATCACTC
AGTGATTGCAATTTGCACAAGTTTTTTTAAATTATGGGAATCAAGATTTAATCCTAGAGATTTGGTGTACAATTC
AGGCTTTGGATGTTTCTTTAGCAGTTTTGTGATAAGTTCTAGTTGCTTGTAAAATTTCACTTAATAATGTGTACA
TTAGTCATTCAATAAATTGTAATTGTAAAGAAAA

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FIGURE 2018

MGAAGLLGVFLALVAPGVLGISCGSPPPILNGRISYYSTPIAVGTVIRYSCSGTFRLIGEKSLLCITKDKVDGTW
DKPAPKCEYFNKYSSCPEPIVPGGYKIRGSTPYRHGDSVTFACKTNFSMNGNKSVWCQANNMWGPTRLPTCVSVF
PLECPALPMIHNGHHTSENVGSIAPGLSVTYSCESGYLLVGEKIINCLSSGKWSAVPPTCEEARCKSLGRFPNGK
VKEPPILRVGVTANFFCDEGYRLQGPPSSRCVIAGQGVAWTKMPVCEEIFCPSPPPILNGRHIGNSLANVSYGSI
VTYTCDPDPEEGVNFILIGESTLRCTVDSQKTGTWSGPAPRCELSTSAVQCPHPQILRGRMVSGQKDRYTYNDTV
IFACMFGFTLKGSKQIRCNAQGTWEPSAPVCEKECQAPPNILNGQKEDRHMVRFDPGTSIKYSCNPGYVLVGEES
IQCTSEGVWTPPVPQCKVAACEATGRQLLTKPQHQFVRPDVNSSCGEGYKLSGSVYQECQGTIPWFMEIRLCKEI
TCPPPPVIYNGAHTGSSLEDFPYGTTVTYTCNPGPERGVEFSLIGESTIRCTSNDQERGTWSGPAPLCKLSLLAV
QCSHVHIANGYKISGKEAPYFYNDTVTFKCYSGFTLKGSSQIRCKADNTWDPEIPVCEKETCQHVRQSLQELPAG
SRVELVNTSCQDGYQLTGHAYQMCQDAENGIWFKKIPLCKVIHCHPPPVIVNGKHTGMMAENFLYGNEVSYECDQ
GFYLLGEKKLQCRSDSKGHGSWSGPSPQCLRSPPVTRCPNPEVKHGYKLNKTHSAYSHNDIVYVDCNPGFIMNGS
RVIRCHTDNTWVPGVPTCMKKAFIGCPPPPKTPNGNHTGGNIARFSPGMSILYSCDQGYLLVGEALLLCTHEGTW
SQPAPHCKEVNCSSPADMDGIQKGLEPRKMYQYGAVVTLECEDGYMLEGSPQSQCQSDHQWNPPLAVCRSRSLAP
VLCGIAAGLILLTFLIVITLYVISKHRERNYYTDTSQKEAFHLAREVYSVDPYNPAS

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FIGURE 2019A

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CCCAGCCCAAGTTTTTAGGGTGGGGATCCAGACTGGTTATACGTACCTTCAGTCCTTCTCCCAGAGGAAGGCAGA
AACACCTCAAAGCCTGCATGTAAGAACATCTACTGAGAAATTATTTTAATCAGACACCAGCTGAGTGGGAGAAAG
GAAAAGAACAGAGAAGAACAAACAAAACTCCCTTGGTCTTGGATGTAAGAGAATCCAGCAGAGATGGACTGGAGT
TTCTTCAGAGTAGTTGCAGTGCTGTTCATTTTTCTGGTGGTGGTAGAAGTTAACAGTGAATTCCGAATCCAGGTA
AGAGATTATAACACTAAAAATGGCACCATCAAATGGCATTCAATCCGAAGGCAGAAACGTGAATGGATCAAGTTC
GCAGCAGCCTGTCGTGAAGGTGAAGACAACTCAAAGAGGAACCCAATCGCCAAAATTCACTCAGATTGTGCTGCA
AACCAGCAAGTTACATACCGCATCTCTGGAGTAGGAATTGATCAGCCACCATATGGGATCTTTGTCATTAATCAG
AAAACTGGTGAAATTAATATAACATCCATAGTTGATCGAGAGGTCACTCCTTTCTTCATTATCTACTGCCGAGCT
CTGAACTCAATGGGCCAAGATTTAGAGAGGCCTCTAGAGCTCAGAGTCAGGGTTTTGGATATAAATGACAACCCT
CCAGTGTTTTCAATGGCTACATTTGCAGGACAAATAGAAGAAAATTCTAATGCAAATACACTGGTGATGATACTC
AATGCTACTGACGCAGATGAACCGAACAATTTGAACTCAAAAATAGCCTTCAAGATTATAAGACAAGAACCTTCA
GATTCACCAATGTTTATTATCAACAGAAATACTGGAGAAATTCGAACGATGAATAATTTTCTAGACAGAGAGCAA
TACGGCCAGTATGCTCTTGCTGTAAGAGGCTCTGACCGAGATGGTGGGGCAGATGGCATGTCAGCGGAATGTGAG
TGCAACATTAAAATCCTCGATGTCAATGATAATATCCCTTACATGGAACAGTCTTCATATACCATAGAAATTCAA
GAAAATACTCTAAATTCAAATTTGCTCGAGATTAGAGTAATTGATTTGGATGAAGAGTTCTCAGCTAACTGGATG
GCAGTAATTTTCTTTATCTCTGGAAATGAAGGAAATTGGTTTGAGATAGAAATGAATGAAAGAACAAATGTGGGA
ATTTTAAAGGTTGTTAAGCCCTTAGATTATGAAGCTATGCAGAGTCTGCAACTCAGTATTGGTGTCAGAAATAAA
GCTGAATTTCATCATTCAATTATGTCTCAATATAAACTGAAAGCATCTGCAATTTCTGTGACTGTGTTAAATGTA
ATTGAAGGCCCAGTGTTTCGTCCAGGTTCAAAGACATATGTTGTAACTGGTAATATGGGATCAAATGATAAAGTG
GGAGACTTTGTAGCTACTGACCTGGACACAGGTAGACCTTCAACGACTGTTAGGTATGTAATGGGAAATAATCCA
GCTGACCTGCTAGCTGTTGATTCAAGAACAGGCAAACTCACTTTGAAAAATAAAGTTACCAAGGAACAGTACAAT
ATGCTCGGAGGAAAATACCAAGGAACGATTCTCTCTATAGATGATAATCTTCAAAGAACTTGCACTGGTACAATT
AATATTAACATTCAAAGTTTTGGTAATGACGACAGGACTAATACAGAGCCGAACACTAAAATTACTACCAATACT
GGCAGACAAGAAAGTACTTCTTCCACTAACTATGATACCAGCACAACTTCTACTGACTCTAGCCAAGTATATTCT
TCTGAACCCGGAAACGGAGCCAAAGATTTGTTATCAGACAATGTACATTTTGGTCCTGCTGGCATTGGACTCCTC
ATCATGGGATTCTTGGTCTTAGGATTGGTCCCATTTTTGATGATCTGTTGTGATTGTGGAGGTGCTCCTCGTAGT
GCAGCTGGCTTTGAGCCTGTTCCCGAATGTTCAGATGGAGCAATTCATTCATGGGCAGTAGAAGGACCACAGCCT
GAACCCAGGGATATAACCACTGTCATACCACAAATACCACCTGATAACGCAAATATAATTGAATGCATTGACAAC
TCAGGAGTTTATACAAATGAGTATGGTGGCAGAGAAATGCAAGATCTGGGAGGAGGAGAGAGAATGACAGGATTT
GAACTAACAGAGGGAGTTAAAACTTCAGGAATGCCTGAGATATGTCAAGAATACTCTGGAACATTAAGAAGAAAT
TCTATGAGGGAATGTAGAGAAGGAGGTCTGAATATGAATTTCATGGAAAGCTACTTCTGTCAGAAAGCATATGCT
TACGCAGATGAAGATGAAGGACGCCCATCTAATGACTGTTTGCTCATATATGACATCGAAGGTGTAGGTTCCCCT
GCTGGCTCTGTGGGTTGTTGTAGCTTCATTGGAGAAGACCTGGATGACAGCTTCTTGGATACCCTGGGACCTAAA
TTTAAGAAGTTGGCAGACATCAGCCTAGGAAAAGAATCATATCCAGACCTTGATCCTTCTTGGCCACCACAAAGC
ACTGAACCAGTTTGCCTTCCTCAGGAAACAGAGCCCGTTGTTAGTGGACACCCACCAATCTCCCCACATTTCGGC
ACTACCACAGTAATTTCTGAGAGCACCTATCCCTCGGGACCTGGTGTACTGCATCCTAAGCCTATTCTCGATCCT
CTGGGCTATGGTAATGTCACTGTGACCGAGTCTTACACCACCTCTGACACTCTGAAGCCCTCTGTGCACGTTCAC
GATAACCGACCAGCATCAAACGTGGTAGTGACAGAGAGTGGTCGGCCCAATCTCTGGCGCTGATTTGCATGGA
ATGTTAGAGATGCCTGACTTGCGAGATGGGTCGAATGTTATAGTGACAGAAAGGGTAATAGCACCAAGCTCTAGT
CTACCCACCTCTCTGACTATCCATCATCCTAGAGAGTCTTCAAATGTGGTAGTGACAGAAAGAGTAATCCAACCA
ACTTCCGGCATGATAGGTAGTCTGAGTATGCACCCCGAGTTAGCCAATGCCCACAATGTCATTGTGACAGAGAGG
GTTGTTTCTGGTGCTGGCGTAACTGGAATTAGTGGCACCACTGGGATCAGCGGTGGCATAGGCAGCAGTGGCCTG
GTTGGCACCAGCATGGGTGCTGGGAGCGGTGCCCTGAGTGGAGCTGGCATAAGTGGTGGTGGCATTGGCCTGAGC
AGCTTGGGAGGGACAGCCAGCATTGGCCACATGAGGAGTTCCTCTGACCATCACTTTAACCAAACCATTGGGTCC
GCCTCCCCTAGCACAGCTCGAAGTCGAATCACAAAGTATAGTACCGTGCAATATAGCAAGTAGTCAGGACCCCAG
CTCACTTTTTCATAGTCATTGTGGTTTAGATCCAATTCCCACCACTAAAAAACTAACAATGTGATTTATAACGCA
CAACTTCGTGCTCAGGTCATCTAGGAGCAAGGTGAGAAATCACAATGAGAAAAATAAATGGAAACACCACTGCTA
GGGGAGAGCTCTCCTTAGCATTCATAAACTTTTCTCTTATATTAGGACTAAGGAACTAAAACTTGAGGCAGAGTC
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FIGURE 2019B

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TTCTTTGTGCCTGAGTGGCCTGTAGTCCATCTCCAGCATGTAACTGGCCTTACGATGGCAATTGGCATCATTCTC
CTTGCTCTGTTTTGCTTTTCCATATAGCTCGAGCAAAATTCAAAAAGAACTAAATATGCAATATATGTTCATATC
TATGGGAAAAATCTAAAATGTGTGCCAGATGCCCTGTTGGTTTCACAGATAACATAAATAAAAATTCAACCACAG
ATTTATACAAGGGTTAACCATTTTTTTTAAGTTTGACTACATAGTCAAGTCCACAAGCCATCAAGCACTCCTACC
TTAATTATTGCACTAGAGAAAATAAATTCCAAATTAGGAAGTGTTTCCTAGGAGGAAAATTCCATTAGAGAGTGG
CAATAGGATGAGGTTTCTTCAGGGTAAACTAGCAATGCCTGAGCCTGAACCTTAATGTGGGGCCTCAGTTAATAT
CCCTGTGGAGTCAAGGATTCTTCTGATTCTAGTGTGTGTTTAGTGATAGATGTAGTCTTGACGAATATTGCTTAC
TGGTGAGGTTGAGGAATATCACACTCGTCTTTCCCTTTACCACTGTGGTTTTGACTTAAGAAAGCAAAACTCACT
AAGTTTACTTCTCGAATTGAAGCAAGTGAGGCCTGACATGGTTGTCATCACTAGTGGCAAATGACCTTCCAAGTA
AGCAGATGGGAACTGAATTGTGTTTTCAGGTTTTGTTTTTAGTAGGTGATATTCATTCGTATCCAGCTCTTTATT
ACATAGCTCTGAAGTTAAAATGATTTACATAGGCCGAGCTGTGGACAAAAAAAAAGAAGCAGCAGCTTGTAGTAT
GCTTAAGCTTTGGGGAATTTTTTTTTAAGGGGATCTAAAAAAATGTTTTTAGAACATGTAAAATGTTTAATGGTG
AAAGTTGGAAAA
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FIGURE 2020

MDWSFFRVVAVLFIFLVVVEVNSEFRIQVRDYNTKNGTIKWHSIRRQKREWIKFAAACREGEDNSKRNPIAKIHS
DCAANQQVTYRISGVGIDQPPYGIFVINQKTGEINITSIVDREVTPFFIIYCRALNSMGQDLERPLELRVRVLDI
NDNPPVFSMATFAGQIEENSNANTLVMILNATDADEPNNLNSKIAFKIIRQEPSDSPMFIINRNTGEIRTMNNFL
DREQYGQYALAVRGSDRDGGADGMSAECECNIKILDVNDNIPYMEQSSYTIEIQENTLNSNLLEIRVIDLDEEFS
ANWMAVIFFISGNEGNWFEIEMNERTNVGILKVVKPLDYEAMQSLQLSIGVRNKAEFHHSIMSQYKLKASAISVT
VLNVIEGPVFRPGSKTYVVTGNMGSNDKVGDFVATDLDTGRPSTTVRYVMGNNPADLLAVDSRTGKLTLKNKVTK
EQYNMLGGKYQGTILSIDDNLQRTCTGTININIQSFGNDDRTNTEPNTKITTNTGRQESTSSTNYDTSTTSTDSS
QVYSSEPGNGAKDLLSDNVHFGPAGIGLLIMGFLVLGLVPFLMICCDCGGAPRSAAGFEPVPECSDGAIHSWAVE
GPQPEPRDITTVIPQIPPDNANIIECIDNSGVYTNEYGGREMQDLGGGERMTGFELTEGVKTSGMPEICQEYSGT
LRRNSMRECREGGLNMNFMESYFCQKAYAYADEDEGRPSNDCLLIYDIEGVGSPAGSVGCCSFIGEDLDDSFLDT
LGPKFKKLADISLGKESYPDLDPSWPPQSTEPVCLPQETEPVVSGHPPISPHFGTTTVISESTYPSGPGVLHPKP
ILDPLGYGNVTVTESYTTSDTLKPSVHVHDNRPASNVVVTERVVGPISGADLHGMLEMPDLRDGSNVIVTERVIA
PSSSLPTSLTIHHPRESSNVVVTERVIQPTSGMIGSLSMHPELANAHNVIVTERVVSGAGVTGISGTTGISGGIG
SSGLVGTSMGAGSGALSGAGISGGGIGLSSLGGTASIGHMRSSSDHHFNQTIGSASPSTARSRITKYSTVQYSK

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FIGURE 2021

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GCCCCGCCGCCGGCAGTGGACCGCTGTGCGCGAACCCTGAACCCTACGGTCCCGACCCGCGGGCGAGGCCGGGTA
CCTGGGCTGGGATCCGGAGCAAGCGGGCGAGGGCAGCGCCCTAAGCAGGCCCGGAGCGATGGCAGCCTTGATGAC
CCCGGGAACCGGGGCCCCACCCGCGCCTGGTGACTTCTCCGGGGGAAGGGAGCCAGGGACTTCCCGACCCTTCGCC
AGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGAGGCCGCCTGAGCGAAGCGGACATCAGGGG
CTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAGATCGGGGCCATGCTGATGGCCATCCGACTTCG
GGGCATGGATCTGGAGGAGACCTCGGTGCTGACCCAGGCCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGA
GGCCTGGCGCCAGCAGCTTGTGGACAAGCATTCCACAGGGGGTGTGGGTGACAAGGTCAGCCTGGTCCTCGCACC
TGCCCTGGCGGCATGTGGCTGCAAGGTGCCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGGA
TAAGCTGGAGTCTATTCCTGGATTCAATGTCATCCAGAGCCCAGAGCAGATGCAAGTGCTGCTGGACCAGGCGGG
CTGCTGTATCGTGGGTCAGAGTGAGCAGCTGGTTCCTGCGGACGGAATCCTATATGCAGCCAGAGATGTGACAGC
CACCGTGGACAGCCTGCCACTCATCACAGCCTCCATTCTCAGTAAGAAACTCGTGGAGGGGCTGTCCGCTCTGGT
GGTGGACGTTAAGTTCGGAGGGGCCGCCGTCTTCCCCAACCAGGAGCAGGCCCGGGAGCTGGCAAAGACGCTGGT
TGGCGTGGGAGCCAGCCTAGGGCTTCGGGTCGCGGCAGCGCTGACCGCCATGGACAAGCCCCTGGGTCGCTGCGT
GGGCCACGCCCTGGAGGTGGAGGAGGCGCTGCTCTGCATGGACGGCGCAGGCCCGCCAGACTTAAGGGACCTGGT
CACCACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACGCGGGGACTCAGGCTCAGGGCGCTGCCCGGGTGGC
CGCGGCGCTGGACGACGGCTCGGCCCTTGGCCGCTTCGAGCGGATGCTGGCGGCGCAGGGCGTGGATCCCGGTCT
GGCCCGAGCCCTGTGCTCGGGAAGTCCCGCAGAACGCCGGCAGCTGCTGCCTCGCGCCCGGGAGCAGGAGGAGCT
GCTGGCGCCCGCAGATGGCACCGTGGAGCTGGTCCGGGCGCTGCCGCTGGCGCTGGTGCTGCACGAGCTCGGGGC
CGGGCGCAGCCGCGCTGGGGAGCCGCTCCGCCTGGGGGTGGGCGCAGAGCTGCTGGTCGACGTGGGTCAGAGGCT
GCGCCGTGGGACCCCCTGGCTCCGCGTGCACCGGGACGGCCCCGCGCTCAGCGGCCCGCAGAGCCGCGCCCTGCA
GGAGGCGCTCGTACTCTCCGACCGCGCGCCATTCGCCGCCCCCTCGCCCTTCGCAGAGCTCGTTCTGCCGCCGCA
GCAATAAAGCTCCTTTGCCGCGAAA
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FIGURE 2022

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MAALMTPGTGAPPAPGDFSGEGSQGLPDPSPEPKQLPELIRMKRDGGRLSEADIRGFVAAVVNGSAQGAQIGAML
MAIRLRGMDLEETSVLTQALAQSGQQLEWPEAWRQQLVDKHSTGGVGDKVSLVLAPALAACGCKVPMISGRGLGH
TGGTLDKLESIPGFNVIQSPEQMQVLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDSLPLITASILSKKLVE
GLSALVVDVKFGGAAVFPNQEQARELAKTLVGVGASLGLRVAAALTAMDKPLGRCVGHALEVEEALLCMDGAGPP
DLRDLVTTLGGALLWLSGHAGTQAQGAARVAAALDDGSALGRFERMLAAQGVDPGLARALCSGSPAERRQLLPRA
REQEELLAPADGTVELVRALPLALVLHELGAGRSRAGEPLRLGVGAELLVDVGQRLRRGTPWLRVHRDGPALSGP
QSRALQEALVLSDRAPFAAPSPFAELVLPPQQ
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FIGURE 2023

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CCTGTTTGGGACACTGGACTCCCGTGAGCTGGAAGGAACAGATTTAATATCTAGGGGCTGGGTATCCCCACATCA
CTCATTTGGGGGGTCAAGGGACCCGGGCAATATAGTATTCTGCTCAGTGTCTGGAGATCATCTACCCAGGCTGGG
GCTTCTGGGACAGGCGAGGACCCACGGACCCTGGAAGAGCTGGTCCAGGGGACTGAACTCCCGGCATCTTTACAG
AGCAGAGCATGATCACATTCCTGCCGCTGCTGCTGGGGCTCAGCCTGGGCTGCACAGGAGCAGGTGGCTTCGTGG
CCCATGTGGAAAGCACCTGTCTGTTGGATGATGCTGGGACTCCAAAGGATTTCACATACTGCATCTCCTTCAACA
AGGATCTGCTGACCTGCTGGGATCCAGAGGAGAATAAGATGGCCCCTTGCGAATTTGGGGTGCTGAATAGCTTGG
CGAATGTCCTCTCACAGCACCTCAACCAAAAAGACACCCTGATGCAGCGCTTGCGCAATGGGCTTCAGAATTGTG
CCACACACACCCAGCCCTTCTGGGGATCACTGACCAACAGGACACGGCCACCATCTGTGCAAGTAGCCAAAACCA
CTCCTTTTAACACGAGGGAGCCTGTGATGCTGGCCTGCTATGTGTGGGGCTTCTATCCAGCAGAAGTGACTATCA
CGTGGAGGAAGAACGGGAAGCTTGTCATGCCTCACAGCAGTGCGCACAAGACTGCCCAGCCCAATGGAGACTGGA
CATACCAGACCCTCTCCCATTTAGCCTTAACCCCCTCTTACGGGGACACTTACACCTGTGTGGTAGAGCACATTG
GGGCTCCTGAGCCCATCCTTCGGGACTGGACACCTGGGCTGTCCCCCATGCAGACCCTGAAGGTTTCTGTGTCTG
CAGTGACTCTGGGCCTGGGCCTCATCATCTTCTCTCTTGGTGTGATCAGCTGGCGGAGAGCTGGCCACTCTAGTT
ACACTCCTCTTCCTGGGTCCAATTATTCAGAAGGATGGCACATTTCCTAGAGGCAGAATCCTACAACTTCCACTC
CAAGTGAGAAGGAGATTCAAACTCAATGATGCTACCATGCCTCTCCAACATCTTCAACCCCCTGACATTATCTTG
GATCCTATGGTTTCTCCATCCAATTCTTTGAATTTCCCAGTCTCCCCTATGTAAAACTTAGCAACTTGGGGGACC
TCATTCCTGGGACTATGCTGTAACCAAATTATTGTCCAAGGCTATATTTCTGGGATGAATATAATCTGAGGAAGG
GAGTTAAAGACCCTCCTGGGGCTCTCAGTGTGCCATAGAGGACAGCAACTGGTGATTGTTTCAGAGAAATAAACT
TTGGTGGA
```

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FIGURE 2024

MITFLPLLLGLSLGCTGAGGFVAHVESTCLLDDAGTPKDFTYCISFNKDLLTCWDPEENKMAPCEFGVLNSLANV
LSQHLNQKDTLMQRLRNGLQNCATHTQPFWGSLTNRTRPPSVQVAKTTPFNTREPVMLACYVWGFYPAEVTITWR
KNGKLVMPHSSAHKTAQPNGDWTYQTLSHLALTPSYGDTYTCVVEHIGAPEPILRDWTPGLSPMQTLKVSVSAVT
LGLGLIIFSLGVISWRRAGHSSYTPLPGSNYSEGWHIS

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FIGURE 2025

GAAGTCGCACC**ATG**TCCATGTCACCCACGGTCATCATCCTGGCATGTCTTGGGTTCTTCTTGGACCAGAGTGTGT
GGGCACACGTGGGTCTATATGAGAAACCTTCGCTTACAGCCCGGCCGGGCCCCACGGTTCGCGCAGGAGAGAACG
TGACCTTGTCCTGCAGCTCCCAGAGCTCCTTTGACATCTACCATCTATCCAGGGAAGGGGAAGCCCATGAACTTA
GGCTCCCTGCAGTGCCCAGCATCAATGGAACATTCCAGGCCGACTTCCCTCTGGGTCCTGCCACCCACGGAGAGA
CCTACAGATGCTTCGGCTCTTTCCATGGATCTCCCTACGAGTGGTCAGACCCGAGTGACCCACTGCCTGTTTCTG
TCACAGATGCTGCTGTAATGAACCAAGAGCCTGCGGGACACAGAACAGTGAACAGGGAGGACTCTGATGAACAAG
ACCCTCAGGAGGTGACATACGCACAGTTGGATCACTGCATTTTCACACAGAGAAAAATCACTGGCCCTTCTCAGA
GGAGCAAGAGACCTTCAACAGATACCAGCGTGTGTATAGAACTTCCAAATGCTGAGCCCAGAGCGTTGTCTCCTG
CCCATGAGCACCACAGTCAGGCCTTGATGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAAACCCAGCTTGCCA
GCTCTAATGTACCAGCAGCTGGAATC**TGA**AGGCGTGAGTC

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FIGURE 2026

MSMSPTVIILACLGFFLDQSVWAHVGLYEKPSLTARPGPTVRAGENVTLSCSSQSSFDIYHLSREGEAHELRLPA
VPSINGTFQADFPLGPATHGETYRCFGSFHGSPYEWSDPSDPLPVSVTDAAVMNQEPAGHRTVNREDSDEQDPQE
VTYAQLDHCIFTQRKITGPSQRSKRPSTDTSVCIELPNAEPRALSPAHEHHSQALMGSSRETTALSQTQLASSNV
PAAGI

2233/2682
FIGURE 2027

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CTTAGTAACACGTTGATGAGAAATCTACTTTTTCCACTCTTGACTCACTCTGAGCCTTCACAGGGCAGTCTGCGA
AGATTGCAGGCATTGTTTGTTCTTGTCTTGGATTTATGCCTTTAAATTTCACCTTTTATTACACAGCTATAGCAG
GCCTTTTTATGAGACTAACCTGGCCTCTCCACTAAAGGATGTGTGACTTTCTGGGGACAGAAGAGTACAGTCCCT
GACATCACACACTGCAGAGATGGATAACCAAGGAGTAATCTACTCAGACCTGAATCTGCCCCCAAACCCAAAGAG
GCAGCAACGAAAACCTAAAGGCAATAAAAGCTCCATTTTAGCAACTGAACAGGAAATAACCTATGCGGAATTAAA
CCTTCAAAAAGCTTCTCAGGATTTTCAAGGGAATGACAAAACCTATCACTGCAAAGATTTACCATCAGCTCCAGA
GAAGCTCATTGTTGGGATCCTGGGAATTATCTGTCTTATCTTAATGGCCTCTGTGGTAACGATAGTTGTTATTCC
CTCTACATTAATACAGAGGCACAACAATTCTTCCCTGAATACAAGAACTCAGAAAGCACGTCATTGTGGCCATTG
TCCTGAGGAGTGGATTACATATTCCAACAGTTGTTACTACATTGGTAAGGAAAGAAGAACTTGGGAAGAGAGTTT
GCTGGCCTGTACTTCGAAGAACTCCAGTCTGCTTTCTATAGATAATGAAGAAGAAATGAAATTTCTGTCCATCAT
TTCACCATCCTCATGGATTGGTGTGTTTCGTAACAGCAGTCATCATCCATGGGTGACAA**TGA**ATGGTTTGGCTTT
CAAACATGAGATAAAAGACTCAGATAATGCTGAACTTAACTGTGCAGTGCTACAAGTAAATCGACTTAAATCAGC
CCAGTGTGGATCTTCAATAATATATCATTGTAAGCATAAGCTTTAGAGGTAAAGCGTTTGCATTTGCAGTGCATC
AGATAAATTGTATATTTCTTAAAATAGAAATATATTATGATTGCATAAATCTTAAAATGAATTATGTTATTTGCT
CTAATAAGAAAATTCTAAATCAATTATTGAAACAGGATACACACAATTACTAAAGTACAGACATCCTAGCATTTG
TGTCGGGCTCATTTTGCTCAACATGGTATTTGTGGTTTTCAGCCTTTCTAAAAGTTGCATGTTATGTGAGTCAGC
TTATAGGAAGTACCAAGAACAGTCAAACCCATGGAGACAGAAAGTAGAATAGTGGTTGCCAATGTCTGAGGGAGG
TTGAAATAGGAGATGACCTCTAACTGATAGAACGTTACTTTGTGTCGTGATGAAAACTTTCTAAATTTCAGTAGT
GGTGATGGTTGTAACTCTGCGAATATACTAAACATCATTGATTTTTAATCATTTTAAGTGCATGAAATGTATGCT
TTGTACACGACACTTCAATAAAGCTATCCAGAAAAAAAAAA
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FIGURE 2028

MDNQGVIYSDLNLPPNPKRQQRKPKGNKSSILATEQEITYAELNLQKASQDFQGNDKTYHCKDLPSAPEKLIVGI
LGIICLILMASVVTIVVIPSRHCGHCPEEWITYSNSCYYIGKERRTWEESLLACTSKNSSLLSIDNEEEMKFLSI
ISPSSWIGVFRNSSHHPWVTMNGLAFKHEIKDSDNAELNCAVLQVNRLKSAQCGSSIIYHCKHKL

FIGURE 2029

TCTCCCTCCGCCTCCCGAGCACCAGCGCGCTCTGAGCTGCCCCCAGGGTCCCTCCCCCGCCGCCAGCAGCCCATT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGTT
TGTGGTGACCCCCGCCCCCCACCCCACCCTCCCTTCCCACCCGACCCCCAACCCCCATCCCCAGTTCGAGCCGCC
GCCCGAAAGGCCGGGCCGTCGTCTTAGGAGGAGTCGCCGCCGCCGCCACCTCCGCC**ATG**GAGCTGATCACCATTC
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCCTGGAGCGTGCGGCCGTGGAGA
ACCTGCCCACTTTCCTTGTGGAACTGTCCAGAGTGCTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAACTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAACTATGTTTTGCAGACATTGGGTACAGAAACTTACCGGCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCCAGTAAACCAGTGGCCAGAACTCATTCCTC
AGCTGGTGGCCAATGTCACAAACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGCTACGAATGCACTCCTGAACTCATTGGAGTTCACCAAAG
CAAACTTTGATAAAGAGTCTGAAAGGCACTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAATCTGGTGAAGATAATGTCCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTTGGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCCTCACACAGACACTAACTA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCCACATGTCCTCCCCCTTCATTAAAGAACACATCAAGAACCCAGATTGGCGGT
ACCGGGATGCAGCAGTGATGGCTTTTGGTTGTATCTTGGAAGGACCAGAGCCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCACCCTAATAGAATTAATGAAAGACCCCAGTGTAGTTGTTCGAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGCTGAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTTGCTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCATTTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTTCTGCATATGAATCTC
TGATGGAAATTGTGAAAAACAGTGCCAAGGATTGTTATCCTGCTGTCCAGAAAACGACTTTGGTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGGAAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAAGTGTTGGGTGGTGAATTCCTCAAGTACATGGAGGCCTTTAAACCCTTCCTGGGCATTG
GATTAAAAAAATTATGCTGAATACCAGGTTTGTTTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAAAATTTGGGGAATGAGAACGTCCACA
GGTCTGTGAAGCCGCAGATTCTGTCAGTGTTTGGTGATATTGCCCTTGCTATTGGAGGAGAGTTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAAGCTGCTTGGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTCATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTTGGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCCTTGCTACATGGGCAACAAAAGAACTGAGGAAACTGAAGAACCAAGCT**TGA**TCTGTTACCATTG
GGATGATAACCTGAGGACCCCCACTGGAAATCTCCCATCTTTTGAAAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAAAACACACCACATTGAAAATCCTGCCACAGCAG
CAGCCGCAGCCGCCAACAGCAGCGCTGTTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATAACATCGGC
CATCTTGGAAAAGAGAAAAACAATGGAGTTACTTATTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2030

MELITILEKTVSPDRLELEAAQKFLERAAVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTSKDPDIKAQ
YQQRWLAIDANARREVKNYVLQTLGTETYRPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAIIQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEAAYEAADVADDQEEPATYCLSSSFELIVQKLLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPAVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHQDA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYAEYQVCLAAVGLVG
DLCRALQSNIIPFCDEVMQLLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDVLKLVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

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FIGURE 2031

GGGCGTGATTTGAGCCCCGTTTTTATTTTCTGTGAGCCACGTCCTCCTCGAGGGGGTCAATCTGGCCAAAAGGAG
TG**ATG**CGCTTCGCCTGGACCGTGCTCCTGCTCGGGCCTTTGCAGCTCTGCGCGCTAGTGCACTGCGCCCCTCCCG
CCGCCGGCCAACAGCAGCCCCCGCGCGAGCCGCCGGCGGCTCCGGGCGCCTGGCGCCAGCAGATCCAATGGGAGA
ACAACGGGCAGGTGTTCAGCTTGCTGAGCCTGGGCTCACAGTACCAGCCTCAGCGCCGCCGGGACCCGGGCGCCG
CCGTCCCTGGTGCAGCCAACGCCTCCGCCCAGCAGCCCCGCACTCCGATCCTGCTGATCCGCGACAACCGCACCG
CCGCGGCGCGAACGCGGACGGCCGGCTCATCTGGAGTCACCGCTGGCCGCCCCAGGCCCACCGCCCGTCACTGGT
TCCAAGCTGGCTACTCGACATCTAGAGCCCGCGAACGTGGCGCCTCGCGCGCGGAGAACCAGACAGCGCCGGGAG
AAGTTCCTGCGCTCAGTAACCTGCGGCCGCCCAGCCGCGTGGACGGCATGGTGGGCGACGACCCTTACAACCCCT
ACAAGTACTCTGACGACAACCCTTATTACAACTACTACGATACTTATGAAAGGCCCAGACCTGGGGGCAGGTACC
GGCCCGGATACGGCACTGGCTACTTCCAGTACGGTCTCCCAGACCTGGTGGCCGACCCCTACTACATCCAGGCGT
CCACGTACGTGCAGAAGATGTCCATGTACAACCTGAGATGCGCGGCGGAGGAAAACTGTCTGGCCAGTACAGCAT
ACAGGGCAGATGTCAGAGATTATGATCACAGGGTGCTGCTCAGATTTCCCCAAAGAGTGAAAAACCAAGGGACAT
CAGATTTCTTACCCAGCCGACCAAGATATTCCTGGGAATGGCACAGTTGTCATCAACATTACCACAGTATGGATG
AGTTTAGCCACTATGACCTGCTTGATGCCAACACCCAGAGGAGAGTGGCTGAAGGCCACAAAGCAAGTTTCTGTC
TTGAAGACACATCCTGTGACTATGGCTACCACAGGCGATTTGCATGTACTGCACACACACAGGGATTGAGTCCTG
GCTGTTATGATACCTATGGTGCAGACATAGACTGCCAGTGGATTGATATTACAGATGTAAAACCTGGAAACTATA
TCCTAAAGGTCAGTGTAAACCCCAGCTACCTGGTTCCTGAATCTGACTATACCAACAATGTTGTGCGCTGTGACA
TTCGCTACACAGGACATCATGCGTATGCCTCAGGCTGCACAATTTCACCGTAT**TAG**AAGGCAAAGCAAAACTCCC
AATGGATAAATCAGTGCCTGGTGTTCTGAAGTGGGAAAAAATAGACTAACTTCAGTAGGATTTATGTATTTTGAA
AAAGAGAACAGAAAACAACAAAAGAATTTTTGTTTGGACTGTTTTCAATAACAAAGCACATAACTGGATTTTGAA
CGCTTAAGTCAATCATTACTTGGAAATTTXTAATGTTTATTATTTACATCAACTTTGTGAATTAACACAGTGTTT
CAATTCTGTAATTTCATATTTGACTCTTT

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FIGURE 2032

MRFAWTVLLLGPLQLCALVHCAPPAAGQQQPPREPPAAPGAWRQQIQWENNGQVFSLLSLGSQYQPQRRRDPGAA
VPGAANASAQQPRTPILLIRDNRTAAARTRTAGSSGVTAGRPRPTARHWFQAGYSTSRARERGASRAENQTAPGE
VPALSNLRPPSRVDGMVGDDPYNPYKYSDDNPYYNYYDTYERPRPGGRYRPGYGTGYFQYGLPDLVADPYYIQAS
TYVQKMSMYNLRCAAEENCLASTAYRADVRDYDHRVLLRFPQRVKNQGTSDFLPSRPRYSWEWHSCHQHYHSMDE
FSHYDLLDANTQRRVAEGHKASFCLEDTSCDYGYHRRFACTAHTQGLSPGCYDTYGADIDCQWIDITDVKPGNYI
LKVSVNPSYLVPESDYTNNVVRCDIRYTGHHAYASGCTISPY

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FIGURE 2033

CAGTCTCA**ATG**GGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGCTCCAGGGGAGGGGTTCCCTCCTGCTAGCTG
TGGCAGGAGCCACTTCTCTGGTGACCTTGTTGCTGGCGGTGCCTATCACTGTCCTGGCTGTGCTGGCCTTAGTGC
CCCAGGATCAGGGAGGACTGGTAACGGAGACGGCCGACCCCGGGGGCACAGGCCCAGCAAGGACTGGGGTTTCAGA
AGCTGCCAGAGGAGGAGCCAGAAACAGATCTCAGCCCCGGGCTCCCAGCTGCCCACCTCATAGGCGCTCCGCTGA
AGGGGCAGGGGCTAGGCTGGGAGACGACGAAGGAACAGGCGTTTCTGACGAGCGGGACGCAGTTCTCGGACGCCG
AGGGGCTGGCGCTCCCGCAGGACGGCCTCTATTACCTCTACTGTCTCGTCGGCTACCGGGGCCGGGCGCCCCCTG
GCGGCGGGGACCCCCAGGGCCGCTCGGTCACGCTGCGCAGCTCTCTGTACCGGGCGGGGGGCGCCTACGGGCCGG
GCACTCCCGAGCTGCTGCTCGAGGGCGCCGAGACGGTGACTCCAGTGCTGGACCCGGCCAGGAGACAAGGGTACG
GGCCTCTCTGGTACACGAGCGTGGGGTTCGGCGGCCTGGTGCAGCTCCGGAGGGGCGAGAGGGTGTACGTCAACA
TCAGTCACCCCGATATGGTGGACTTCGCGAGAGGGAAGACCTTCTTTGGGGCCGTGATGGTGGGGTGAGGGAATA
TGAGTGCGTGGTGCGAGTGCGTGAATATTGGGGGCCCGGACGCCCAGGACCCCATGGCAGTGGGAAAAATGTAGG
AGACTGTTTGGAAATTGATTTTGAACCTGATGAAAATAAAGAATGGAAAGCTTCAGTGCTGCCGATAAA

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FIGURE 2034

MGALGLEGRGGRLQGRGSLLLAVAGATSLVTLLLAVPITVLAVLALVPQDQGGLGFRSCQRRSQKQISAPGSQLP
TS

FIGURE 2035

CGGCCAGCACACCCCGGCACCTCCTCTGCGGCAGCTGCGCCTCGCAAGCGCAGTGCCGCAGCGCACGCCGGAGTG
GCTGTAGCTGCCTCGGCGCGGCTGCCGCCCTGCGCGGGCTGTGGGCTGCGGGCTGCGCCCCCGCTGCTGGCCAGC
TCTGCACGGCTGCGGGCTCTGCGGCGCCCGGTGCTCTGCAACGCTGCGGCGGGCGGCATGGGATAACGCGGCC**AT**
GGTGCGCCGAGATCGCCTCCGCAGGATGAGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCCTGCTTGC
TGCGTACCTGCACATCCCACCCCCTCAGCTCTCCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAAGTTTTTCAC
TTACAAGGGACTGCGTATCTTCTACCAAGACTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTTACA
CGGTTTTCCAACATCCAGCTACGACTGGTACAAGATTTGGAAGGGTCTGACCTTGAGGTTTCATCGGGTGATTGC
CCTTGATTTCTTAGGCTTTGGCTTCAGTGACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCAT
CGTGGAAGCGCTTTTGCGGCATCTGGGGCTCCAGAACCGCAGAATCAACCTTCTTTCTCATGACTATGGAGATAT
TGTTGCTCAGGAGCTTCTCTACAGGTACAAGCAGAATCGATCTGGTCGGCATACCATAAAGAGTCTCTG TCTGTC
AAATGGAGGTATCTTTCCTGAGACTCACCGTCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTC
ACCCATCCTCACACGACTGATGAACTTCTTTGTATTCTCTCGAGGTCTCACCCCAGTCTTTGGGCCGTATACTCG
GCCCTCTGAGAGTGAGCTGTGGGACATGTGGGCAGGGATCCGCAACAATGACGGGAACTTAGTCATTGACAGTCT
CTTACAGTACATCAATCAGAGGAAGAAGTTCAGAAGGCGCTGGGTGGGAGCTCTTGCCTCTGTAACTATCCCCAT
TCATTTTATCTATGGGCCATTGGATCCTGTAAATCCCTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCC
GCGGTCCACAGTGTCGATTCTGGATGACCACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAA
TGCATATATGGGCTTCATCAACTCCTTC**TGA**GCTGGAAAGAGTAGCTTCCCTGTATTACCTCCCCTACTCCCTTA
TGTGTTGTGTATTCCACTTAGGAAGAAATGCCCAAAAGAGGTCCTGGCCATCAAACATAATTCTCTCACAAAGTC
CACTTTACTCAAATTGGTGAACAGTGTATAGGAAGAAGCCAGCAGGAGCTCTGACTAAGGTTGACATAATAGTCC
ACCTCCCATTACTTTGATATCTGATCAAATGTATAGACTTGGCTTTGTTTTTTGTGCTATTAGGAAATTCTGATG
AGCATTACTATTCACTGATGCAGAAAGACGTTCTTTTGCATAAAAGACTTTTTTTTAACACTTTGGACTTCTCTG
AAATATTTAGAAGTGCTAATTTCTGGCCCACCCCCAACAGGAATTCTATAGTAAGGAGGAGGAGAAGGGGGGCTC
CTTCCCTCTCCTCGAATGACGTTATGGGCACATGCCTTTTAAAAGTTCTTTAAGCAACACAGAGCTGAGTCCTCT
TTGTCATACCTTTGGATTTAGTGTTTCATCAGCTGTTTTTAGTTATAAACATTTTGTTAAAATAGATATTGGTTT
AAATGATACAGTATTTTAGGTATGATTTAAGACTATGATTTACCTATACATTATATATATTTTATAAAGATACTA
AACCAGCATACCCTTACTCTGCCAGAGTAGTGAAGCTAATTAAACACGTTTGGTTTCTGAATAAATTGAACTAAA
TCCAAACTATTTCCTAAAATCACAGGACATTAAGGACCAATAGCATCTGTGCCAGAGATGTACTGTTATTAGCTG
GGAAGACCAATTCTAACAGCAAATAACAGTCTGAGACTCCTCATACCTCAGTGGTTAGAAGCATGTCTCTCTTGA
GCTACAGTAGAGGGGAAGGGATTGTTGTGTAGTCAAGTCACCATGCTGAATGTACACTGATTCCTTTATGATGAC
TGCTTAACTCCCCACTGCCTGTCCCAGAGAGGCTTTCCAATGTAGCTCAGTAATTCCTGTTACTTTACAGACAGG
AAAGTTCCAGAAAC TTTAAGAACAAACTCTGAAAGACCTATGAGCAAATGGTGCTGAATACTTTTTTTTTAAAGC
CACATTTCATTGTCTTAGTCAAAGCAGGATTATTAAGTGATTATTTAAAATTCGTTTTTTTAAATTAGCAACTTC
AAGTATAACAACTTTGAAACTGGAATAAGTGTTTATTTTCTATTAATAAAAATGAATTGTGACAAAAAAAAAACC
G

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FIGURE 2036

MVRRDRLRRMREWWVQVGLLAVPLLAAYLHIPPPQLSPALHSWKSSGKFFTYKGLRIFYQDSVGVVGSPEIVVLL
HGFPTSSYDWYKIWKGLTLRFHRVIALDFLGFGFSDKPRPHHYSIFEQASIVEALLRHLGLQNRRINLLSHDYGD
IVAQELLYRYKQNRSGRHTIKSLCLSNGGIFPETHRPLLLQKLLKDGGVLSPILTRLMNFFVFSRGLTPVFGPYT
RPSESELWDMWAGIRNNDGNLVIDSLLQYINQRKKFRRRWVGALASVTIPIHFIYGPLDPVNPYPEFLELYRKTL
PRSTVSILDDHISHYPQLEDPMGFLNAYMGFINSF

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FIGURE 2037

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GAGGCGCCAGGATCAGTCGGGGCACCCGCAGCGCAGGCTGCCACCCACCTGGGCGACCTCCGCGGCGGCGGCGGC
GGCGGCTGGGTAGAGTCAGGGCCGGGGGCGCACGCCGGAACACCTGGGCCGCCGGGCACCGAGCGTCGGGGGGCT
GCGCGGCGCGACCCTGGAGAGGGCGCAGCCGATGCGGGCGGCGGCGGCGGCGGGGGGCGTGCGGACGGCCGCGCT
GGCGCTGCTGCTGGGGGCGCTGCACTGGGCGCCGGCGCGCTGCGAGGAGTACGACTACTATGGCTGGCAGGCCGA
GCCGCTGCACGGCCGCTCCTACTCCAAGCCGCCGCAGTGCCTTGACATCCCTGCCGACCTGCCGCTCTGCCACAC
GGTGGGCTACAAGCGCATGCGGCTGCCCAACCTGCTGGAGCACGAGAGCCTGGCCGAAGTGAAGCAGCAGGCGAG
CAGCTGGCTGCCGCTGCTGGCCAAGCGCTGCCACTCGGATACGCAGGTCTTCCTGTGCTCGCTCTTTGCGCCCGT
CTGTCTCGACCGGCCCATCTACCCGTGCCGCTCGCTGTGCGAGGCCGTGCGCGCCGGCTGCGCGCCGCTCATGGA
GGCCTACGGCTTCCCCTGGCCTGAGATGCTGCACTGCCACAAGTTCCCCCTGGACAACGACCTCTGCATCGCCGT
GCAGTTCGGGCACCTGCCCGCCACCGCGCCTCCAGTGACCAAGATCTGCGCCCAGTGTGAGATGGAGCACAGTGC
TGACGGCCTCATGGAGCAGATGTGCTCCAGTGACTTTGTGGTCAAAATGCGCATCAAGGAGATCAAGATAGAGAA
TGGGGACCGGAAGCTGATTGGAGCCCAGAAAAAGAAGAAGCTGCTCAAGCCGGGCCCCCTGAAGCGCAAGGACAC
CAAGCGGCTGGTGCTGCACATGAAGAATGGCGCGGGCTGCCCCTGCCCACAGCTGGACAGCCTGGCGGGCAGCTT
CCTGGTCATGGGCCGCAAAGTGGATGGACAGCTGCTGCTCATGGCCGTCTACCGCTGGGACAAGAAGAATAAGGA
GATGAAGTTTGCAGTCAAATTCATGTTCTCCTACCCCTGCTCCCTCTACTACCCTTTCTTCTACGGGGCGGCAGA
GCCCCACTGAAGGGCACTCCTCCTTGCCCTGCCAGCTGTGCCTTGCTTGCCCTCTGGCCCCGCCCCAACTTCCAG
GCTGACCCGGCCCTACTGGAGGGTGTTTTCACGAATGTTGTTACTGGCACAAGGCCTAAGGGATGGGCACGGAGC
CCAGGCTGTCCTTTTTGACCCAGGGGTCCTGGGGTCCCTGGGATGTTGGGCTTCCTCTCTCAGGAGCAGGGCTTC
TTCATCTGGGTGAAGACCTCAGGGTCTCAGAAAGTAGGCAGGGGAGGAGAGGGTAAGGGAAAGGTGGAGGGGCTC
AGGGCACCCTGAGGCGGAGGTTTCAGAGTAGAAGGTGATGTCAGCTCCAGCTCCCCTCTGTCGGTGGTGGGGCCT
CACCTTGAAGAGGGGAAGTCTCAATATTAGGCTAAGCTATTTGGGAAAGTTCTCCCCACCGCCCCTGTACGCGTCA
TCCTAGCCCCCCTTAGGAAAGGAGTTAGGGTCTCAGTGCCTCCAGCCACACCCCCTGCCTTCCCCAGCTTGCCCA
TTTCCCTGCCCCAAGGCCCAGAGCTCCCCCCAGACTGGAGAGCAAGCCCAGCCCAGCCTCGGCATAGACCCCCTT
CTGGTCCGCCCGTGGCTCGATTCCCGGGATTCATTCCTCAGCCTCTGCTTCTCCCTTTTATCCCAATAAGTTATT
GCTACTGCTGTGAGGCCATAGGTACTAGACAACCAATACATGCAGGGTTGGGTTTTCTAATTTTTTTAACTTTTT
AATTAAATCAAAGGTCGACGCGCGGCCGCG
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FIGURE 2038

MRAAAAAGGVRTAALALLLGALHWAPARCEEYDYYGWQAEPLHGRSYSKPPQCLDIPADLPLCHTVGYKRMRLPN
LLEHESLAEVKQQASSWLPLLAKRCHSDTQVFLCSLFAPVCLDRPIYPCRSLCEAVRAGCAPLMEAYGFPWPEML
HCHKFPLDNDLCIAVQFGHLPATAPPVTKICAQCEMEHSADGLMEQMCSSDFVVKMRIKEIKIENGDRKLIGAQK
KKKLLKPGPLKRKDTKRLVLHMKNGAGCPCPQLDSLAGSFLVMGRKVDGQLLLMAVYRWDKKNKEMKFAVKFMFS
YPCSLYYPFFYGAAEPH

FIGURE 2039

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TGCGACGTGACTGGCTAGCTGCGTGGGTACTGGAACAAGCAAACGAGGCAGCGAGCGAAGGACGGGAGCCGGACC
CTGGGCCCCGTGGAACTCCAGCCTGCGCCACCACGTCACGCACACGCTCGGCGCTGCGATCCGCGCATATAACGA
TATTTGGATTTGACCTGCATTTTGGAATTTATCTACACTTAAAATGCCACCAGCAGTTGGAGGTCCAGTTGGATA
CACCCCCCCAGATGGAGGCTGGGGCTGGGCAGTGGTAATTGGAGCTTTCATTTCCATCGGCTTCTCTTATGCATT
TCCCAAATCAATTACTGTCTTCTTCAAAGAGATTGAAGGTATATTCCATGCCACCACCAGCGAAGTGTCATGGAT
ATCCTCCATAATGTTGGCTGTCATGTATGGTGGAGGTCCTATCAGCAGTATCCTGGTGAATAAATATGGAAGTCG
TATAGTCATGATTGTTGGTGGCTGCTTGTCAGGCTGTGGCTTGATTGCAGCTTCTTTCTGTAACACCGTACAGCA
ACTATACGTCTGTATTGGAGTCATTGGAGGTCTTGGGCTTGCCTTCAACTTGAATCCAGCTCTGACCATGATTGG
CAAGTATTTCTACAAGAGGCGACCATTGGCCAACGGACTGGCCATGGCAGGCAGCCCTGTGTTCCTCTGTACTCT
GGCCCCCCTCAATCAGGTTTTCTTCGGTATCTTTGGATGGAGAGGAAGCTTTCTAATTCTTGGGGGCTTGCTACT
AAACTGCTGTGTTGCTGGAGCCCTCATGCGACCAATCGGGCCCAAGCCAACCAAGGCAGGGAAAGATAAGTCTAA
AGCATCCCTTGAGAAAGCTGGAAAATCTGGTGTGAAAAAAGATCTGCATGATGCAAATACAGATCTTATTGGAAG
ACACCCTAAACAAGAGAAACGATCAGTCTTCCAAACAATTAATCAGTTCCTGGACTTAACCCTATTCACCCACAG
AGGCTTTTTGCTATACCTCTCTGGAAATGTGATCATGTTTTTTGGACTCTTTGCACCTTTGGTGTTTCTTAGTAG
TTATGGGAAGAGTCAGCATTATTCTAGTGAGAAGTCTGCCTTCCTTCTTTCCATTCTGGCTTTTGTTGACATGGT
AGCCCGACCATCTATGGGACTTGTAGCCAACACAAAGCCAATAAGACCTCGAATTCAGTATTTCTTTGCGGCTTC
CGTTGTTGCAAATGGAGTGTGTCATATGCTAGCACCTTTATCCACTACCTATGTTGGATTCTGTGTCTATGCGGG
ATTCTTTGGATTTGCCTTCGGGTGGCTCAGCTCCGTATTGTTTGAAACATTGATGGACCTTGTTGGACCCCAGAG
GTTCTCCAGCGCTGTGGGATTGGTGACCATTGTGGAATGCTGTCCTGTCCTCCTGGGGCCACCACTTTTAGGTCG
GCTCAATGACATGTATGGAGACTACAAATACACATACTGGGCATGTGGCGTCGTCCTAATTATTTCAGGTATCTA
TCTCTTCATTGGCATGGGCATCAATTATCGACTTTTGGCAAAAGAACAGAAAGCAAACGAGCAGAAAAAGGAAAG
TAAAGAGGAAGAGACCAGTATAGATGTTGCTGGGAAGCCAAATGAAGTTACCAAAGCAGCAGAATCTCCGGACCA
GAAAGACACAGAAGGAGGGCCCAAGGAGGAGGAAAGTCCAGTCTGAATCCATGGGGCTGAAGGGTAAATTGAGCA
GTTCATGACCCAGGATATCTGAAAATATTCTACTGGCCTGTAATCTACCAGTGGTGCTCAATGCAAATAGTAGAC
ATTTGTGTGGAAATCATACCAGTTGTTCATTGATGGGATTTTTGTTTGACTCCTTACCAATAGCCTGAATTTGAG
GAGGGAATGATTGGTAGCAAAGGATGGGGGAAAGAAGTAGGTTCTGTTTTGTTTTGTTTTAATCTTAGCTTTTAA.
TAGTGTCATAAAGATTATAATATGTGCCTTAAGTTTTAGTCTTTAGAACTCTAGAGAGCCTTAACTTCTTAAACC
ATTTTTGCTGAATTCATCTATTTCGAGTGTTGTGTTAAAAGGAAAAATAACAACTAACTTGTTTGAGGCAAATCT
AAAATTTAAAATTAATCTTGCTTCATTGTTACATGTAATATATTTCAGACATTTTCACTGGAAGATTTATGAACA
GAAATATTGGTTGAAAGTTAGAGATTTTACAAAATGCTGACAAAAATATTTTCCTAGCATCAGTAGATTTCTGGC
ATATGTTTCTGCTAGCTATATATTTAGGAAATTCAAAGCATAAAACTTTGGCAACATCTTGGCTGTTCTAGACAC
AGTGTACTTGTCAACCCCTCTCAGGTACCTTTTCTTGGGATGCTTATTAGAAGCCAAGTAAAGTGCTTAAGGTTT
GTTTTCATTAAATTAGCTATTTCTGCTCCCCTGTTCAAAGATGCATTTTGAGTGTTTATAGATCACTGCCCTTTT
TGAAATCACCTGGTATTATTTTTCTTACTGGAAAAGTTAGTATTAAAATCTACAGAACTACATATTTGTGCCTCC
TTGGTAAATACAACACATCTAATTAAATGTAGACAGATATTTCAAACATCAGCTGAATTCACTTAAGTTTTTCCA
AAACCTCAGTTAAACTGTGAAGCTATTGGAATTTTTTTTTCCTGGAATTTTTCCCCTTTGATTCACAGTGGTCCC
ATTTATATCTGCTTCTAGCTTAGTGCTATGTGTGAGATATGTGTGTGTTTGGTGTTTTTGTTTTTTTGTTTTTTT
TTTTTTAAGGTTTGCAAATTAAAAAGGGCCAGAAAAATTTGGCACCAGGCAAACGAATAAAGATAGGATTGGGAA
AGAAGTTGCTAAGTGTGCTTAGTTTTAATAAGTAATTCCTTCTCTTTTTTCAGAGAAGGCCTTACAGAAAATTGT
TGTGCTTAGAATTGCTGGATGCATTTTTACCCTCCACACAAACCTAAAAATTTTGTGACCCCTTTCACTTACCTG
AAAAGTAGAGAAATGGATTCAGTATAAGGATAAGGAGGGAAGGTGGACCAGAATGAAAACTGTAAATATTTTTTT
AACCTAATATCACTTAAATCGAGGCAGAAAGATATAGACATTCAATGAATTATATTCAATGCATTTAAAAATACCA
CTGTAATTGACAGAGTAAAAGTATAGATACAAAACCTTGTGTAAGAGGCTGACTTTTCCAAATAAACATTTTTTA
AGAAAACATTTCTTCTCCCAAATGTCTATTTCTTGAGGAAAATATTGCTGTGTCTTCATTTTCATTACCAGGTT
TCATTTTGGGCCTTGCTAAATTGATTGAATTAAATCCTCCAGCTTTTGAACCTTGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAG
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FIGURE 2040

MPPAVGGPVGYTPPDGGWGWAVVIGAFISIGFSYAFPKSITVFFKEIEGIFHATTSEVSWISSIMLAVMYGGGPI
SSILVNKYGSRIVMIVGGCLSGCGLIAASFCNTVQQLYVCIGVIGGLGLAFNLNPALTMIGKYFYKRRPLANGLA
MAGSPVFLCTLAPLNQVFFGIFGWRGSFLILGGLLLNCCVAGALMRPIGPKPTKAGKDKSKASLEKAGKSGVKKD
LHDANTDLIGRHPKQEKRSVFQTINQFLDLTLFTHRGFLLYLSGNVIMFFGLFAPLVFLSSYGKSQHYSSEKSAF
LLSILAFVDMVARPSMGLVANTKPIRPRIQYFFAASVVANGVCHMLAPLSTTYVGFCVYAGFFGFAFGWLSSVLF
ETLMDLVGPQRFSSAVGLVTIVECCPVLLGPPLLGRLNDMYGDYKYTYWACGVVLIISGIYLFIGMGINYRLLAK
EQKANEQKKESKEEETSIDVAGKPNEVTKAAESPDQKDTEGGPKEEESPV

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FIGURE 2041

GGCACGAGGAGGAAGAGCCGCGGGCCCGGCGGCTGAGGCCACCCCGGCGGCGGCTGGAGAGCGAGGAGGAGCGGG
TGGCCCCGCGCTGCGCCCGCCCTCGCCTCACCTGGCGCAGGTGGACACCTGCGCAGGTGTGTGCCCTCCGGCCCC
TGAAGC**ATG**GCCAGCAGCGGCATGGCTGACAGCGCCAACCACCTGCCCTTCTTTTTCGGCAACATCACCCGGGAG
GAGGCAGAAGATTACCTGGTCCAGGGGGGCATGAGTGATGGGCTTTATTTGCTGCGCCAGAGCCGCAACTACCTG
GGTGGCTTCGCCCTGTCCGTGGCCCACGGGAGGAAGGCACACCACTACACCATCGAGCGGGAGCTGAATGGCACC
TACGCCATCGCCGGTGGCAGGACCCATGCCAGCCCCGCCGACCTCTGCCACTACCACTCCCAGGAGTCTGATGGC
CTGGTCTGCCTCCTCAAGAAGCCCTTCAACCGGCCCCAAGGGGTGCAGCCCAAGACTGGGCCCTTTGAGGATTTG
AAGGAAAACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGGTCAGGCTCTGGAGCAGGCCATCATC
AGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACCACAGCCCATGAAAAAATGCCTTGGTTCCATGGAAAAATC
TCTCGGGAAGAATCTGAGCAAATTGTCCTGATAGGATCAAAGACAAATGGAAAGTTCCTGATCCGAGCCAGAGAC
AACAACGGCTCCTACGCCCTGTGCCTGCTGCACGAAGGGAAGGTGCTGCACTATCGCATCGACAAAGACAAGACA
GGGAAGCTCTCCATCCCCGAGGGAAAGAAGTTCGACACGCTCTGGCAGCTAGTCGAGCATTATTCTTATAAAGCA
GATGGTTTGTTAAGAGTTCTTACTGTCCCATGTCAAAAAATCGGCACACAGGGAAATGTTAATTTTGGAGGCCGT
CCACAACTTCCAGGTTCCCATCCTGCGACTTGGTCAGCGGGTGGAATAATCTCAAGAATCAAATCATACTCCTTC
CCAAAGCCTGGCCACAGAAAGTCCTCCCCTGCCCAAGGGAACCGGCAAGAGAGTACTGTGTCATTCAATCCGTAT
GAGCCAGAACTTGCACCCTGGGCTGCAGACAAAGGCCCCCAGAGAGAAGCCCTACCCATGGCACACAGAGGTGTAC
GAGAGCCCCTACGCGGACCCTGAGGAGATCAGGCCCAAGGAGGTTTACCTGGACCGAAAGCTGCTGACGCTGGAA
GACAAAGAACTGGGCTCTGGTAATTTTGGAACTGTGAAAAAGGGCTACTACCAAATGAAAAAAGTTGTGAAAACC
GTGGCTGTGAAAATACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATGAGTTATTAGCAGAAGCAAATGTC
ATGCAGCAGCTGGACAACCCGTACATCGTGCGCATGATCGGGATATGCGAGGCCGAGTCCTGGATGCTAGTTATG
GAGATGGCAGAACTTGGTCCCCTCAATAAGTATTTGCAGCAGAACAGACATGTCAAGGATAAGAACATCATAGAA
CTGGTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCAATTTTGTGCACAGAGATCTGGCTGCAAGA
AATGTGTTGCTAGTTACCCAACATTATGCCAAGATCAGTGATTTCGGACTCTCCAAAGCACTGCGTGCTGATGAA
AACTACTACAAGGCCCAGACCCATGGAAAGTGGCCTGTCAAGTGGTACGCTCCGGAATGCATCAACTACTACAAG
TTCTCCAGCAAAAGCGATGTCTGGAGCTTTGGAGTGTTGATGTGGGAAGCATTCTCCTATGGGCAGAAGCCATAT
CGAGGGATGAAAGGAAGTGAAGTCACCGCTATGTTAGAGAAAGGAGAGCGGATGGGGTGCCCTGCAGGGTGTCCA
AGAGAGATGTACGATCTCATGAATCTGTGCTGGACATACGATGTGGAAAACAGGCCCGGATTCGCAGCAGTGGAA
CTGCGGCTGCGCAATTACTACTATGACGTGGTGAAC**TAA**CCGCTCCCGCACCTGTCGGTGGCTGCCTTTGATCAC
AGGAGCAATCACAGGAAAATGTATCCAGAGGAATTGATTGTCAGCCACCTCCCTCTGCCAGTCGGGAGAGCCAGG
CTTGGATGGAACATGCCCACAACTTGTCACCCAAAGCCTGTCCCAGGACTCACCCTCCACAAAGCAAAGGCAGTC
CCGGGAGAAAAGACGGATGGCAGGATCCAAGGGGCTAGCTGGATTTGTTTGTTTTCTTGTCTGTGTGATTTTCAT
ACAGGTTATTTTTACGATCTGTTTCCAAATCCCTTTCATGTCTTTCCACTTCTCTGGGTCCCGGGGTGCATTTGT
TACTCATCGGGCCCAGGGACATTGCAGAGTGGCCTAGAGCACTCTCACCCCAAGCGGCCTTTTCCAAATGCCCAA
GGATGCCTTAGCATGTGACTCCTGAAGGGAAGGCAAAGGCAGAGGAATTTGGCTGCTTCTACGGCCATGAGACTG
ATCCCTGGCCACTGAAAAGCTTTCCTGACAATAAAAATGTTTTGAGGCTTTAAAAAGAAAATCAAGTTTGACCAG
TGCAGTTTCTAAGCATGTAGCCAGTTAAGGAAAGAAAGAAAAAAAAAAAAAAAAAA

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FIGURE 2042

MASSGMADSANHLPFFFGNITREEAEDYLVQGGMSDGLYLLRQSRNYLGGFALSVAHGRKAHHYTIERELNGTYA
IAGGRTHASPADLCHYHSQESDGLVCLLKKPFNRPQGVQPKTGPFEDLKENLIREYVKQTWNLQGQALEQAIISQ
KPQLEKLIATTAHEKMPWFHGKISREESEQIVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGK
LSIPEGKKFDTLWQLVEHYSYKADGLLRVLTVPCQKIGTQGNVNFGGRPQLPGSHPATWSAGGIISRIKSYSFPK
PGHRKSSPAQGNRQESTVSFNPYEPELAPWAADKGPQREALPMDTEVYESPYADPEEIRPKEVYLDRKLLTLEDK
ELGSGNFGTVKKGYYQMKKVVKTVAVKILKNEANDPALKDELLAEANVMQQLDNPYIVRMIGICEAESWMLVMEM
AELGPLNKYLQQNRHVKDKNIIELVHQVSMGMKYLEESNFVHRDLAARNVLLVTQHYAKISDFGLSKALRADENY
YKAQTHGKWPVKWYAPECINYYKFSSKSDVWSFGVLMWEAFSYGQKPYRGMKGSEVTAMLEKGERMGCPAGCPRE
MYDLMNLCWTYDVENRPGFAAVELRLRNYYYDVVN

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FIGURE 2043A

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CAAATGCGAACTTAGGCTGTTACACAACTGCTGGGGTCTGTTCTCGCCGCCCGCCCGGCAGTCAGGCAGCGTCGC
CGCCGTGGTAGCAGCCTCAGCCGTTTCTGGAGTCTCGGGCCCACAGTCACCGCCGCTTACCTGCGCCTCCTCGAG
CCTCCGGAGTCCCCGTCCGCCCGCACAGGCCGGTTCGCCGTCTGCGTCTCCCCCACGCCGCCTCGCCTGCCGCCG
CGCTCGTCCCTCCGGGCCGACATGAGTGGGGACCACCTCCACAACGATTCCCAGATCGAAGCGGATTTCCGATTG
AATGATTCTCATAAACACAAAGATAAACACAAAGATCGAGAACACCGGCACAAAGAACACAAGAAGGAGAAGGAC
CGGGAAAAGTCCAAGCATAGCAACAGTGAACATAAAGATTCTGAAAAGAAACACAAAGAGAAGGAGAAGACCAAA
CACAAAGATGGAAGCTCAGAAAAGCATAAAGACAAACATAAAGACAGAGACAAGGAAAAACGAAAAGAGGAAAAG
GTTCGAGCCTCTGGGGATGCAAAAATAAAGAAGGAGAAGGAAAATGGCTTCTCTAGTCCACCACAAATTAAAGAT
GAACCTGAAGATGATGGCTATTTTGTTCCTCCTAAAGAGGATATAAAGCCATTAAAGAGACCTCGAGATGAGGAT
GATGCTGATTATAAACCTAAGAAAATTAAAACAGAAGATACCAAGAAGGAGAAGAAAAGAAAACTAGAAGAAGAA
GAGGATGGTAAATTGAAAAAACCCAAGAATAAAGATAAAGATAAAAAAGTTCCTGAGCCAGATAACAAGAAAAAG
AAGCCGAAGAAAGAAGAGGAACAGAAGTGGAAATGGTGGGAAGAAGAGCGCTATCCTGAAGGCATCAAGTGGAAA
TTCCTAGAACATAAAGGTCCAGTATTTGCCCCACCATATGAGCCTCTTCCAGAGAATGTCAAGTTTTATTATGAT
GGTAAAGTCATGAAGCTGAGCCCCAAAGCAGAGGAAGTAGCTACGTTCTTTGCAAAAATGCTCGACCATGAATAT
ACTACCAAGGAAATATTTAGGAAAAATTTCTTTAAAGACTGGAGAAAGGAAATGACTAATGAAGAGAAGAATATT
ATCACCAACCTAAGCAAATGTGATTTTACCCAGATGAGCCAGTATTTCAAAGCCCAGACGGAAGCTCGGAAACAG
ATGAGCAAGGAAGAGAAACTGAAAATCAAAGAGGAGAATGAAAAATTACTGAAAGAATATGGATTCTGTATTATG
GATAACCACAAAGAGAGGATTGCTAACTTCAAGATAGAGCCTCCTGGACTTTTCCGTGGCCGCGGCAACCACCCC
AAGATGGGCATGCTGAAGAGACGAATCATGCCCGAGGATATAATCATCAACTGTAGCAAAGATGCCAAGGTTCCT
TCTCCTCCTCCAGGACATAAGTGGAAAGAAGTCCGGCATGATAACAAGGTTACTTGGCTGGTTTCCTGGACAGAG
AACATCCAAGGTTCCATTAAATACATCATGCTTAACCCTAGTTCACGAATCAAGGGTGAGAAGGACTGGCAGAAA
TACGAGACTGCTCGGCGGCTGAAAAAATGTGTGGACAAGATCCGGAACCAGTATCGAGAAGACTGGAAGTCCAAA
GAGATGAAAGTCCGGCAGAGAGCTGTAGCCCTGTACTTCATCGACAAGCTTGCTCTGAGAGCAGGCAATGAAAAG
GAGGAAGGAGAAACAGCGGACACTGTGGGCTGCTGCTCACTTCGTGTGGAGCACATCAATCTACACCCAGAGTTG
GATGGTCAGGAATATGTGGTAGAGTTTGACTTCCTCGGGAAGGACTCCATCAGATACTATAACAAGGTCCCTGTT
GAGAAACGAGTTTTTAAGAACCTACAACTATTTATGGAGAACAAGCAGCCCGAGGATGATCTTTTTGATAGACTC
AATACTGGTATTCTGAATAAGCATCTTCAGGATCTCATGGAGGGCTTGACAGCCAAGGTATTCCGTACATACAAT
GCCTCCATCACGCTACAGCAGCAGCTAAAAGAACTGACAGCCCCGGATGAGAACATCCCAGCGAAGATCCTTTCT
TATAACCGTGCCAATCGAGCTGTTGCAATTCTTTGTAACCATCAGAGGGCACCACCAAAAACTTTTGAGAAGTCT
ATGATGAACTTGCAAACTAAGATTGATGCCAAGAAGGAACAGCTAGCAGATGCCCGGAGAGACCTGAAAAGTGCT
AAGGCTGATGCCAAGGTCATGAAGGATGCAAAGACGAAGAAGGTAGTAGAGTCAAAGAAGAAGGCTGTTCAGAGA
CTGGAGGAACAGTTGATGAAGCTGGAAGTTCAAGCCACAGACCGAGAGGAAAATAAACAGATTGCCCTGGGAACC
TCCAAACTCAATTATCTGGACCCTAGGATCACAGTGGCTTGGTGCAAGAAGTGGGGTGTCCCAATTGAGAAGATT
TACAACAAAACCCAGCGGGAGAAGTTTGCCTGGGCCATTGACATGGCTGATGAAGACTATGAGTTTTAGCCAGTC
TCAAGAGGCAGAGTTCTGTGAAGAGGAACAGTGTGGTTTGGGAAAGATGGATAAACTGAGCCTCACTTGCCCTCG
TGCCTGGGGGAGAGAGGCAGCAAGTCTTAACAAACCAACATCTTTGCGAAAAGATAAACCTGGAGATATTATAAG
GGAGAGCTGAGCCAGTTGTCCTATGGACAACTTATTTAAAAATATTTCAGATATCAAAATTCTAGCTGTATGATT
TGTTTTGAATTTTGTTTTTATTTTCAAGAGGGCAAGTGGATGGGAATTTGTCAGCGTTCTACCAGGCAAATTCAC
TGTTTCACTGAAATGTTTGGATTCTCTTAGCTACTGTATGCAAAGTCCGATTATATTGGTGCGTTTTTACAGTTA
GGGTTTTGCAATAACTTCTATATTTTAATAGAAATAAATTCCTAAACTCCCTTCCCTCTCTCCCATTTCAGGAAT
TTAAAATTAAGTAGAACAAAAAACCCAGCGCACCTGTTAGAGTCGTCACTCTCTATTGTCATGGGGATCAATTTT
CATTAAACTTGAAGCAGTCGTGGCTTTGGCAGTGTTTTGGTTCAGACACCTGTTCACAGAAAAAGCATGATGGGA
AAATATTTCCTGACTTGAGTGTTCCTTTTTAAATGTGAATTTTTATTTCTTTTTAATTATTTTAAAATATTTAAA
CCTTTTTCTTGATCTTAAAGATCGTGTAGATTGGGGTTGGGGAGGGATGAAGGGCGAGTGAATCTAAGGATAATG
AAATAATCAGTGACTGAAACCATTTTCCCATCATCCTTTGTTCTGAGCATTCGCTGTACCCTTTAAGATATCCAT
CTTTTTCTTTTTAACCCTAATCTTTCACTTGAAAGATTTTATTGTATAAAAAGTTTCACAGGTCAATAAACTTAG
AGGAAAATGAGTATTTGGTCCAAAAAAAGGAAAAATAATCAAGATTTTAGGGCTTTTATTTTTTCTTTTGTAATT
GTGTAAAAAATGGAAAAAAACATAAAAAGCAGAATTTTAATGTGAAGACATTTTTTGCTATAATCATTAGTTTTA
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FIGURE 2043B

GAGGCATTGTTAGTTTAGTGTGTGTGCAGAGTCCATTTCCCACATCTTTCCTCAAGTATCTTCTATTTTTATCAT
GAATTCCCTTTTAATCAACTGTAGGTTATTTAAAATAAATTCCTACAACTTAATGGAAA

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FIGURE 2044

MSGDHLHNDSQIEADFRLNDSHKHKDKHKDREHRHKEHKKEKDREKSKHSNSEHKDSEKKHKEKEKTKHKDGSSE
KHKDKHKDRDKEKRKEEKVRASGDAKIKKEKENGFSSPPQIKDEPEDDGYFVPPKEDIKPLKRPRDEDDADYKPK
KIKTEDTKKEKKRKLEEEEDGKLKKPKNKDKDKKVPEPDNKKKKPKKEEEQKWKWWEEERYPEGIKWKFLEHKGP
VFAPPYEPLPENVKFYYDGKVMKLSPKAEEVATFFAKMLDHEYTTKEIFRKNFFKDWRKEMTNEEKNIITNLSKC
DFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCIMDNHKERIANFKIEPPGLFRGRGNHPKMGMLKR
RIMPEDIIINCSKDAKVPSPPPGHKWKEVRHDNKVTWLVSWTENIQGSIKYIMLNPSSRIKGEKDWQKYETARRL
KKCVDKIRNQYREDWKSKEMKVRQRAVALYFIDKLALRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQEYVV
EFDFLGKDSIRYYNKVPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNKHLQDLMEGLTAKVFRTYNASITLQQ
QLKELTAPDENIPAKILSYNRANRAVAILCNHQRAPPKTFEKSMMNLQTKIDAKKEQLADARRDLKSAKADAKVM
KDAKTKKVVESKKKAVQRLEEQLMKLEVQATDREENKQIALGTSKLNYLDPRITVAWCKKWGVPIEKIYNKTQRE
KFAWAIDMADEDYEF

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FIGURE 2045

GGAATTCCGTGGCCAGG**ATG**CTGAGCCTGCTGCTGCTGGCGCTGCCCGTCCTGGCGAGCCGCGCCTACGCGGCCC
CTGCCCCAGTCCAGGCCCTGCAGCAAGCGGGTATCGTCGGGGGTCAGGAGGCCCCCAGGAGCAAGTGGCCCTGGC
AGGTGAGCCTGAGAGTCCGCGACCGATACTGGATGCACTTCTGCGGGGGCTCCCTCATCCACCCCCAGTGGGTGC
TGACCGCGGCGCACTGCCTGGGACCGGACGTCAAGGATCTGGCCACCCTCAGGGTGCAACTGCGGGAGCAGCACC
TCTACTACCAGGACCAGCTGCTGCCAGTCAGCAGGATCATCGTGCACCCACAGTTCTACATCATCCAGACTGGAG
CGGATATCGCCCTGCTGGAGCTGGAGGAGCCCGTGAACATCTCCAGCCGCGTCCACACGGTCATGCTGCCCCCTG
CCTCGGAGACCTTCCCCCCGGGGATGCCGTGCTGGGTCACTGGCTGGGGCGATGTGGACAATGATGAGCCCCTCC
CACCGCCATTTCCCCTGAAGCAGGTGAAGGTCCCCATAATGGAAAACCACATTTGTGACGCAAAATACCACCTTG
GCGCCTACACGGGAGACGACGTCCGCATCATCCGTGACGACATGCTGTGTGCCGGGAACAGCCAGAGGGACTCCT
GCAAGGGCGACTCTGGAGGGCCCCTGGTGTGCAAGGTGAATGGCACCTGGCTACAGGCGGGCGTGGTCAGCTGGG
ACGAGGGCTGTGCCCAGCCCAACCGGCCTGGCATCTACACCCGTGTCACCTACTACTTGGACTGGATCCACCACT
ATGTCCCCAAAAAGCCG**TGA**GTCAGGCCTGGGTGTGCCACCTGGGTCACTGGAGGACCAACCCCTGCTGTCCAAA
ACACCACTGCTTCCTACCCAGGTGGCGACTGCCCCCCACACCTTCCCTGCCCCGTCCTGAGTGCCCCTTCCTGTC
CTAAGCCCCCTGCTCTCTTCTGAGCCCCTTCCCCTGTCCTGAGGACCCTTCCCCATCCTGAGCCCCCTTCCCTGT
CCTAAGCCTGACGCCTGCACTGGGCCCTCCGGCCCTCCCCTGCCCAGGCAGCTGGTGGTGGGCGCTAATCCTCCT
GAGTGCTGGACCTCATTAAAGTGCATGGAAATC

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FIGURE 2046

MLSLLLLLALPVLASRAYAAPAPVQALQQAGIVGGQEAPRSKWPWQVSLRVRDRYWMHFCGGSLIHPQWVLTAAHC
LGPDVKDLATLRVQLREQHLYYQDQLLPVSRIIVHPQFYIIQTGADIALLELEEPVNISSRVHTVMLPPASETFP
PGMPCWVTGWGDVDNDEPLPPPFPLKQVKVPIMENHICDAKYHLGAYTGDDVRIIRDDMLCAGNSQRDSCKGDSG
GPLVCKVNGTWLQAGVVSWDEGCAQPNRPGIYTRVTYYLDWIHHYVPKKP

FIGURE 2047

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ATTAACCTTCTCTTAGTCTTCAACCTAAGTACTTGAATGTCAAGTACCCTCCAACCCTCAATGTCCCAAGACTTT
TAAGAGCGGAAGGTACCGATGAGTTCCATCCTTTACTAGGGTCACCAAGGAAGGCATGGGTATATGGAAATTTTT
ATTATTATTCCATCTGAATATCATTTTCTAGAGAATAGGAGCTTTTGTTCTGAAGGGCTGCCGGCTTCCTTCTGG
GATCTAGCAGCCAGGGTTAGATCACAGGTGTCACTTTCAGGCGAGTAGTTAGCAACGGTATCGCTAGCAACTGAG
CCGACCCCTGCAGCCAGAGGTTTGCAGTGGGTAGTGTGTATTCCAGAAAGGGCCCTGACATGTGAAAGGAAGGAA
TGTGCCCTAATATTCTACAGTTGTTTTATCGTTGCTACTGATTAGGTCCATGGAGGGAAGCCCATCCCTGAGACG
CATGACAGTGATGCGGGAGAAGGGCCGGCGCCAGGCTGTCAGGGGCCCGGCCTTCATGTTCAATGACCGCGGCAC
CAGCCTCACCGCCGAGGAGGAGCGCTTCCTCGACGCCGCCGAGTACGGCAACATCCCAGTGGTGCGCAAGATGCT
GGAGGAGTCCAAGACGCTGAACGTCAACTGCGTGGACTACATGGGCCAGAACGCGCTGCAGCTGGCTGTGGGCAA
CGAGCACCTGGAGGTGACCGAGCTGCTGCTCAAGAAGGAGAACCTGGCGCGCATTGGCGACGCCCTGCTGCTCGC
CATCAGCAAGGGCTACGTGCGCATCGTAGAGGCCATCCTCAACCACCCTGGCTTCGCGGCCAGCAAGCGTCTCAC
TCTGAGCCCCTGTGAGCAGGAGCTGCAGGACGACGACTTCTACGCTTACGACGAGGACGGCACGCGCTTCTCGCC
GGACATCACCCCCATCATCCTGGCGGCGCACTGCCAGAAATACGAAGTGGTGCACATGCTGCTGATGAAGGGTGC
CAGGATCGAGCGGCCGCACGACTATTTCTGCAAGTGCGGGGACTGCATGGAGAAGCAGAGGCACGACTCCTTCAG
CCACTCACGCTCGAGGATCAATGCCTACAAGGGGCTGGCCAGCCCGGCTTACCTCTCATTGTCCAGCGAGGACCC
GGTGCTTACGGCCCTAGAGCTCAGCAACGAGCTGGCCAAGCTGGCCAACATAGAGAAGGAGTTCAAGAATGACTA
TCGGAAGCTCTCCATGCAATGCAAAGACTTTGTAGTGGGTGTGCTGGATCTCTGCCGAGACTCAGAAGAGGTAGA
AGCCATTCTGAATGGAGATCTGGAATCAGCAGAGCCTCTGGAGGTACACAGGCACAAAGCTTCATTAAGTCGTGT
CAAACTTGCCATTAAGTATGAAGTCAAAAAGTTTGTGGCTCATCCCAACTGCCAGCAGCAGCTCTTGACGATCTG
GTATGAGAACCTCTCAGGCCTAAGGGAGCAGACCATAGCTATCAAGTGTCTCGTTGTGCTGGTCGTGGCCCTGGG
CCTTCCATTCCTGGCCATTGGCTACTGGATCGCACCTTGCAGCAGGCTGGGGAAAATTCTGCGAAGCCCTTTTAT
GAAGTTTGTAGCACATGCAGCTTCTTTCATCATCTTCCTGGGTCTGCTTGTGTTCAATGCCTCAGCACAGGTTCGA
AGGCATCACCACGCTGCCCAATATCACAGTTACTGACTATCCCAAACAGATCTTCAGGGTGAAAACCACCCAGTT
TACATGGACTGAAATGCTAATTATGGTCTGGGTTCTTGGAATGATGTGGTCTGAATGTAAAGAGCTCTGGCTGGA
AGGACCTAGGGAATACATTTTGCAGTTGTGGAATGTGCTTGACTTTGGGATGCTGTCCATCTTCATTGCTGCTTT
CACAGCCAGATTCCTAGCTTTCCTTCAGGCAACGAAGGCACAACAGTATGTGGACAGTTACGTCCAAGAGAGTGA
CCTCAGTGAAGTGACACTCCCACCAGAGATACAGTATTTCACTTATGCTAGAGATAAATGGCTCCCTTCTGACCC
TCAGATTATATCTGAAGGCCTTTATGCCATAGCTGTTGTGCTCAGCTTCTCTCGGATTGCGTACATCCTCCCTGC
AAATGAGAGCTTTGGCCCCCTGCAGATCTCTCTTGGAAGGACTGTAAAGGACATATTCAAGTTCATGGTCCTCTT
TATTATGGTGTTTTTTGCCTTTATGATTGGCATGTTCATACTTTATTCTTACTACCTTGGGGCTAAAGTTAATGC
TGCTTTTACCACTGTAGAAGAAAGTTTCAAGACTTTATTTTGGTCAATATTTGGGTTGTCTGAAGTGACTTCCGT
TGTGCTCAAATATGATCACAAATTCATAGAAAATATTGGATACGTTCTTTATGGAATATACAATGTAACTATGGT
GGTCGTTTTACTCAACATGCTAATTGCTATGATTAATAGCTCATATCAAGAAATTGAGGATGACAGTGATGTAGA
ATGGAAGTTTGCTCGTTCAAAACTTTGGTTATCCTATTTTGATGATGGAAAAACATTACCTCCACCTTTCAGTCT
AGTTCCTAGTCCAAAATCATTTGTTTATTTCATCATGCGAATTGTTAACTTTCCCAAATGCAGAAGGAGAAGGCT
TCAGAAGGATATAGAAATGGGAATGGGTAACTCAAAGTCCAGGTTAAACCTCTTCACTCAGTCTAACTCAAGAGT
TTTTGAATCACACAGTTTTAACAGCATTCTCAATCAGCCAACACGTTATCAGCAGATAATGAAAAGACTTATAAA
GCGGTATGTTTTGAAAGCACAAGTAGACAAAGAAAATGATGAAGTTAATGAAGGTGAATTAAAAGAAATCAAGCA
AGATATCTCCAGCCTTCGTTATGAACTTTTGGAAGACAAGAGCCAAGCAACTGAGGAATTAGCCATTCTAATTCA
TAAACTTAGTGAGAAACTGAATCCCAGCATGCTGAGATGTGAATGATGCAGCAACCTGGATTTGGCTTTGACTAT
AGCACAAATGTGGGCAATAATATTTCTAAGTATGAAATACTTGAAAAACTATGATGTAAATTTTTAGTATTAACT
ACCTTTATCATGTGAACCTTTAAAAGTTAGCTCTTAATGGTTTTATTGTTTTATCACATGAAAATGCATTTTATT
TGTCTGCTTTGACATTACAGTGGCATACCATTGTGTTGAAAAGCCCAATATTACTATATTATTGAAACTTTTATT
CATTTTAGAGTAAACTCCACATCTTTGCACTACCTGTTTGCCTCCAAGAGACTATCAGTTCCTTGGGGACAGGGA
CCATGTCTTATTCATCTTTGTGTCTCCAGCATCTAGTACAGTGCCTGGTATATAGTAGGTGCTCAATAAATGTTG
AAACCAACTGAACTGCCAACAAAATAAAAATAAAAAGTCTTCACTATGTAGCATAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2048

MEGSPSLRRMTVMREKGRRQAVRGPAFMFNDRGTSLTAEEERFLDAAEYGNIPVVRKMLEESKTLNVNCVDYMGQ
NALQLAVGNEHLEVTELLLKKENLARIGDALLLAISKGYVRIVEAILNHPGFAASKRLTLSPCEQELQDDDFYAY
DEDGTRFSPDITPIILAAHCQKYEVVHMLLMKGARIERPHDYFCKCGDCMEKQRHDSFSHSRSRINAYKGLASPA
YLSLSSEDPVLTALELSNELAKLANIEKEFKNDYRKLSMQCKDFVVGVLDLCRDSEEVEAILNGDLESAEPLEVH
RHKASLSRVKLAIKYEVKKFVAHPNCQQQLLTIWYENLSGLREQTIAIKCLVVLVVALGLPFLAIGYWIAPCSRL
GKILRSPFMKFVAHAASFIIFLGLLVFNASDRFEGITTLPNITVTDYPKQIFRVKTTQFTWTEMLIMVWVLGMMW
SECKELWLEGPREYILQLWNVLDFGMLSIFIAAFTARFLAFLQATKAQQYVDSYVQESDLSEVTLPPEIQYFTYA
RDKWLPSDPQIISEGLYAIAVVLSFSRIAYILPANESFGPLQISLGRTVKDIFKFMVLFIMVFFAFMIGMFILYS
YYLGAKVNAAFTTVEESFKTLFWSIFGLSEVTSVVLKYDHKFIENIGYVLYGIYNVTMVVVLLNMLIAMINSSYQ
EIEDDSDVEWKFARSKLWLSYFDDGKTLPPPFSLVPSPKSFVYFIMRIVNFPKCRRRRLQKDIEMGMGNSKSRLN
LFTQSNSRVFESHSFNSILNQPTRYQQIMKRLIKRYVLKAQVDKENDEVNEGELKEIKQDISSLRYELLEDKSQA
TEELAILIHKLSEKLNPSMLRCE

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FIGURE 2049A

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GGCACGAGCAGAAGCAACAATAATTGTGAAAAATACTTCAGCAGTTATGGACTCATCTGTCATTCAAAGGAAAAA
AGTAGCTGTCATTGGTGGTGGCTTGGTTGGCTCATTACAAGCATGCTTTCTTGCAAAGAGGAATTTCCAGATTGA
TGTATATGAAGCTAGGGAAGATACTCGAGTGGCTACCTTCACACGTGGAAGAAGCATTAACTTAGCCCTTTCTCA
TAGAGGACGACAAGCCTTGAAAGCTGTTGGCCTGGAAGATCAGATTGTATCCCAAGGTATTCCCATGAGAGCAAG
AATGATCCACTCTCTTTCAGGAAAAAAGTCTGCAATTCCCTATGGGACAAAGTCTCAGTATATTCTTTCTGTAAG
CAGAGAAAATCTAAACAAGGATCTATTGACTGCTGCTGAGAAATACCCCAATGTGAAAATGCACTTTAACCACAG
GCTGTTGAAATGTAATCCAGAGGAAGGAATGATCACAGTGCTTGGATCTGACAAAGTTCCCAAAGATGTCACTTG
TGACCTCATTGTAGGATGTGATGGAGCCTATTCAACTGTCAGATCTCACCTGATGAAGAAACCTCGCTTTGATTA
CAGTCAGCAGTACATTCCTCATGGGTACATGGAGTTGACTATTCCACCTAAGAACGGAGATTATGCCATGGAACC
TAATTATCTGCATATTTGGCCTAGAAATACCTTTATGATGATTGCACTTCCTAACATGAACAAATCATTCACATG
TACTTTGTTCATGCCCTTTGAAGAGTTTGAAAAACTTCTAACCAGTAATGATGTGGTAGATTCTTCCAGAAATA
CTTTCCGGATGCCATCCCTCTAATTGGAGAGAAACTCCTAGTGCAAGATTTCTTCCTGTTGCCTGCCCAGCCCAT
GATATCTGTAAAGTGCTCTTCATTTCACTTTAAATCTCACTGTGTACTGCTGGGAGATGCAGCTCATGCTATAGT
GCCGTTTTTTGGGCAAGGAATGAATGCGGGCTTTGAAGACTGCTTGGTATTTGATGAGTTAATGGATAAATTCAG
TAACGACCTTAGTTTGTGTCTTCCTGTGTTCTCAAGATTGAGAATCCCAGATGATCACGCGATTTCAGACCTATC
CATGTACAATTACATAGAGATGCGAGCACATGTCAACTCAAGCTGGTTCATTTTTCAGAAGAACATGGAGAGATT
TCTTCATGCGATTATGCCATCGACCTTTATCCCTCTCTATACAATGGTCACTTTTTCCAGAATAAGATACCATGA
GGCTGTGCAGCGTTGGCATTGGCAAAAAAGGTGATAAACAAAGGACTCTTTTTCTTGGGATCACTGATAGCCAT
CAGCAGTACCTACCTACTTATACACTACATGTCACCACGATCTTCCTCTGCTTGAGAAGACCATGGAACTGGAT
AGCTCACTTCCGGAATACAACATGTTTCCCCGCAAAGGCCGTGGACTCCCTAGAACAAATTTCCAATCTCATTAG
CAGGTGATAGAAAGGTTTTGTGGTAGCAAATGCATGATTTCTCTGTGACCAAAATTAAGCATGAAAAAAATGTTT
CCATTGCCATATTTGATTCACTAGTGGAAGATAGTGTTCTGCTTATAATTAAACTGAATGTAGAGTATCTCTGTA
TGTTAATTGCAATTACTGGTTGGGGGGGTGCATTTTAAAAGATGAAACATGCAGCTTCCCTACATTACACACACTC
AGGTTGAGTCATTCTAACTATAAAAGTGCAATGACTAAGATCCTTCACTTCTCTGAAAGTAAGGCCCTAGATGCC
TCAGGGAAGACAGTAATCATGCCTTTTCTTTAAAAGACACAATAGGACTCGCAACAGCATTGACTCAACACCTAG
GACTAAAAATCACAACTTAACTAGCATGTTAACTGCACTTTTCATTACGTGAATGGAACTTACCTAACCACAGGG
CTCAGACTTACTAGATAAAACCAGAAATGGAAATAAGGAATTCAGGGGAGTTCCAGAGACTTACAAAATGAACTC
ATTTTATTTTCCCACCTTCAAATATAAGTATTATCATCTATCTGTTTATCGTCTATCTATCTATCATCTATCTAT
CTATCTATCATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATTTATTTATGT
ATTTAGAGATCAGGTCTCACTCTGTTGACCAGGCTGGAGTGCAGTGGTGAGATCTGGGTTCACTGCAACCTCTGC
CTCCTGGGCTCAAGCAATCCTCCCACTTCAGCCTCCCAAATAGCTGGGGCTACCATGGTATTTTTCAGTAGAGAC
CGGGTCTTGCCATGCTGCCCAGGCCAGTCTCAAACTCCTGGCCTCATGTGATCTGCCCACCTCAGCCTCCCAAAG
TACAGGGATTAGAGTTGTGAGCCACCGCTGCCAGCCCAGAGTTACCCTCTAAAGATAAGAAAAAGGCTATTAATA
TCATACTAAGTGAAGGACAGGAAAGGGTTTTATTCATAAATTAAATGTCTACATGTGCCAGAATGGAAAGGAAAC
AAGGGGAGACAACTTTTATAGAAATACAAAGCCATTACTTTATTCAATTTCAGACCCTCAGAAGCAATTTACTAA
TTTATTCTTCGACTACATACTGCAGCAGAACCAGCAATACACTTGATTTTTAAAAGCACATTTAGTGAAATGTTT
TCTTTGGTTCATCCTTCTTTAACAGGCTGCTGAGTCACTCAGAAATCCTTCAAACATGATTAATTATGAAGATGA
AACACTAGAGTCATATAAGAAATAAAAATTGGGCAATAAAATAAAATGATTCAGTGTTTCTTTTCTATATTGTCA
ATGAAAACCTTGAGTTCTAATAATCCATGTTCAGTTTGTAGGGAAAGAAAAAATAATTTTTCCTTCTACCCACTT
TAGGTTCCTTGGCTGGGGCCCCTATAACAAAAGACAGATTGACAAGAGAAAAACAAACATAAATTTATTAGCGGG
TATATGTAATATATATGTGGGAAATACAGGGGAATGAGCAAATCTCAAAGAGCTGGCGTCTTAGAACTCCCTGGC
TTATATAGCATCGACAAAGAACAGTAAATTTTTAGAGAAACAACAAACAAAGAAAAAGAGCTTTGAGTCTGTAG
GGGCAGCAATTTGGGGGAAGCAAATATATGGGAGTTTGCCTTGTAGATTCCTCTGGTGGTGGTCTCCAGGCTGAC
AAGGATTCAAAGTTGTCTCTGAAACTCCTCTTTGTCATACTGCACATATAAAACGTCTTTTGTTTCCAACAAGAG
GATTTCTTTTTCATTCTAGAATTATCTCCTTGATAACTTGATCAGATATAGGACATGACACTGAATAGAGTCCAA
CAGTACAAAAAAAATTCAGTATGTTCTAGCTACTTCACACATGTGTACGCGACAGTTATTTTTACAGTAAGGTAT
TTTCGAGAAAAATGCATTACGTGTTTTGGAAAATAGAGTAATTTAAAAAAATATATTTGAAATGAAAATCTCCAAC
ACATTAGAAGATGATGATGTTAGATGCCCATCGTGTGCCACAAGTGGTTTTTTCATTATGTAAAGCACCCGTTGA
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FIGURE 2049B

ATTAAAAGAATTTGTTTTTGTTCAACCTCTTCCTGAGGCCCAAGAGCATATGGGCAATTCGGATTTCCTGCTGGA
CCACAAGGTTCTGTTGATATTACATAGAAACGGGTATTCCAGACACTTCTTATGATGAAAGTCCAAAAGTGGCAT
CCAATTTAAGGCCCCATCTTTCGTTGCCATTCTTCATTCCTACAAAGGACGAACTTGGATTACATCAACTTTGGA
CCCATTGGTTTTGTCGCTGTCGTCAACTGACAGTGATTCACCACTGGTGATGATAAAAATGATGGAAGAAGAGTT
GAAAGTCACTTTTTTCTTTGGCCTGTCCCCATCTTTCTGTGACATCACAATGGGTCTGATCTGCATTTCACTTCC
AGCTGCTGGTAGGTCTTTAGCAGGCCTCTGGCACCTCAGCAGTCGGAGGCACAGAAGCTGCAAAAGGGATCTTCG
AAACTGGGCAGAGAAAAAATAAAGTGGAATATTAAGTAAAAGTTGGGCACTAATCTGGATTAACATTCGAGGAAA
TCAGTTGAGCTGATTTAAGTTGTTTTTTGTTTGTTAGCAGGTGTGGATGTGGGGTTATGTGGTCATGCTCAGATC
TACCTAAATCACCCCAGAGCTTTATGTCTTTTATTCATTCTAAATCTTATTAACCGGAATATGTAGGACCATTTC
AATACCTTGTAATCCTCCAAGCTTCAATCTGCACACACTTTCTATGAGGGCAGGTACAACTATTAAGAGATTTTG
AACATTAAGTTAGTCCACAAATATTCAGTGGGCATCTACTAGGTGACAGCCACTGTGCTATAATTAGAGACTTTT
TACTATAAGCATCAAAAACAGATAAGGCTCTTCCTGGCAGAGTTTACAGCCTGGTGTACTTGCTAATGTCTCTTT
AATTAGGTGAAGAATTTTTTTTTTCTATCGAAATTACTAATCAGTTGGGGAAAAAAATACTATAGCAGACAGCAC
TAATGTCATCAACAAACATTGTTCTTCTCCGTGTCCTGGGTACAACATCGAATAATATTTCTTGGCCTCCTTTCC
GCTTCTCCTCTCTGCTGTTCCTCTCTACAAGAACCTGGGAGGCCAACGCCTAAAGATCATAATATCACAATGGAA
GGAACCTAGATTCCTAAATGACTGCATAGGACAGATCCCATCTCCTCCACCCAATACATTATTAGACTGAACTGT
GACCTGAAATGAGCAATAAACTCTGTATTAATTCACTGAAATGTTGGGGTTGCTTGTTATAGTAGTCGGTCCATC
ATGACCAGTAAAACATAAATCAAAGTTAATGTAATTGTTATCCCATTATTTAGAGCGAAATAAATGTTGAATAT
ATGGACTTTCTCAGATTAGGAAATACCAATTAAAAATATAATAAATAGCT

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FIGURE 2050

MDSSVIQRKKVAVIGGGLVGSLQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKAVGLEDQI
VSQGIPMRARMIHSLSGKKSAIPYGTKSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHRLLKCNPEEGMITVLG
SDKVPKDVTCDLIVGCDGAYSTVRSHLMKKPRFDYSQQYIPHGYMELTIPPKNGDYAMEPNYLHIWPRNTFMMIA
LPNMNKSFTCTLFMPFEEFEKLLTSNDVVDFFQKYFPDAIPLIGEKLLVQDFFLLPAQPMISVKCSSFHFKSHCV
LLGDAAHAIVPFFGQGMNAGFEDCLVFDELMDKFSNDLSLCLPVFSRLRIPDDHAISDLSMYNYIEMRAHVNSSW
FIFQKNMERFLHAIMPSTFIPLYTMVTFSRIRYHEAVQRWHWQKKVINKGLFFLGSLIAISSTYLLIHYMSPRSF
LCLRRPWNWIAHFRNTTCFPAKAVDSLEQISNLISR

FIGURE 2051

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GACGCTGCGGGGCGGGCGGACAGACTGCGGGACGGACGGTGGACGCTGGGACGCGTTTGTAGCTCCGGCCCCGCC
GTTCCGACCCCCGCCGCCGTCGCCGCCATGACGGGGCTAGCACTGCTCTACTCCGGGGTCTTCGTGGCCTTCTGG
GCCTGCGCGCTGGCCGTGGGAGTCTGCTACACCATTTTTGATTTGGGCTTCCGCTTTGATGTGGCATGGTTCCTG
ACGGAGACTTCGCCCTTCATGTGGTCCAACCTGGGCATTGGCCTAGCTATCTCCCTGTCTGTGGTTGGGGCAGCC
TGGGGCATCTATATTACCGGCTCCTCCATCATTGGTGGAGGAGTGAAGGCCCCCAGGATCAAGACCAAGAACCTG
GTCAGCATCATCTTCTGTGAGGCTGTGGCCATCTACGGCATCATCATGGCAATTGTCATTAGCAACATGGCTGAG
CCTTTCAGTGCCACAGACCCCAAGGCCATCGGCCATCGGAACTACCATGCAGGCTACTCCATGTTTGGGGCTGGC
CTCACCGTAGGCCTGTCTAACCTCTTCTGTGGAGTCTGCGTGGGCATCGTGGGCAGTGGGGCTGCCCTGGCCGAT
GCTCAGAACCCCAGCCTCTTTGTAAAGATTCTCATCGTGGAGATCTTTGGCAGCGCCATTGGCCTCTTTGGGGTC
ATCGTCGCAATTCTTCAGACCTCCAGAGTGAAGATGGGTGACTAGATGATATGTGTGGGTGGGGCCGTGCCTCAC
TTTTATTTATTGCTGGTTTTCCTGGGACAGCTGGAGCTGTGTCCCTTAGCCTTTCAGAGGCTTGGTGTTCAGGGC
CCTCCCTGCACTCCCCTCTTGCTGCGTGTTGATTTGGAGGCACTGCAGTCCAGGCCGAGTCCTCAGTGCGGGGAG
CAGGCTGCTGCTGCTGACTCTGTGCAGCTGCGCACCTGTGTCCCCCACCTCCACCCTCAACCCATCTTCCTAGTG
TTTGTGAAATAAACTTGGTATTTGTCTGGGTC
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FIGURE 2052

MTGLALLYSGVFVAFWACALAVGVCYTIFDLGFRFDVAWFLTETSPFMWSNLGIGLAISLSVVGAAWGIYITGSS
IIGGGVKAPRIKTKNLVSIIFCEAVAIYGIIMAIVISNMAEPFSATDPKAIGHRNYHAGYSMFGAGLTVGLSNLF
CGVCVGIVGSGAALADAQNPSLFVKILIVEIFGSAIGLFGVIVAILQTSRVKMGD

2261/2682
FIGURE 2053

GACTGTCTCAGTGGAGCTGGGTCATCTCAGGCCTTGGCTCCTTGAACTTTTGGCCGCC**ATG**TGCTTCCCGAAGGT
CCTCTCTGATGACATGAAGAAGCTGAAGGCCCGAATGCACCAGGCCATAGAAAGATTTTATGATAAAATGCAAAA
TGCAGAATCAGGACGTGGACAGGTGATGTCGAGCCTGGCAGAGCTGGAGGACGACTTCAAAGAGGGCTACCTGGA
GACAGTGGCGGCTTATTATGAGGAGCAGCACCCAGAGCTCACTCCTCTACTTGAAAAAGAAAGAGATGGATTACG
GTGCCGAGGCAACAGATCCCCTGTCCCGGATGTTGAGGATCCCGCAACCGAGGAGCCTGGGGAGAGCTTTTGTGA
CAAGGTCATGAGATGGTTCCAGGCCATGCTGCAGCGGCTGCAGACCTGGTGGCACGGGGTTCTGGCCTGGGTGAA
GGAGAAGGTGGTGGCCCTGGTCCATGCAGTGCAGGCCCTCTGGAAACAGTTCCAGAGTTTCTGCTGCTCTCTGTC
AGAGCTCTTCATGTCCTCTTTCCAGTCCTACGGAGCCCCACGGGGGGACAAGGAGGAGCTGACACCCCAGAAGTG
CTCTGAACCCCAATCCTCAAAA**TGA**AGATACTGACACCACCTTTGCCCTCCCCGTCACCGCGCACCCACCCTGAC
CCCTCCCTCAGCTGTCCTGTGCCCCGCCCTCTCCCGCACACTCAGTCCCCCTGCCTGGCGTTCCTGCCGCAGCTC
TGACCTGGTGCTGTCGCCCTGGCATCTTAATAAAACCTGCTTATACTTCCCTGGAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 2054

MCFPKVLSDDMKKLKARMHQAIERFYDKMQNAESGRGQVMSSLAELEDDFKEGYLETVAAYYEEQHPELTPLLEK
ERDGLRCRGNRSPVPDVEDPATEEPGESFCDKVMRWFQAMLQRLQTWWHGVLAWVKEKVVALVHAVQALWKQFQS
FCCSLSELFMSSFQSYGAPRGDKEELTPQKCSEPQSSK

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FIGURE 2055A

AGAGTTATATTGTGCCATTTATGGAAAAACTCTCCCCACTGCTCTTGGCTTTGACAGTAGGAATCAGGTTATATA
TGGTCTCTCGGTTTGAAGATATTTGTCATTAAAAACCAGAACAAGGGCTCTGAGATAGGGTCCTTTCCTGACCTA
CTCTGGTAAAGTCTTTATCCTCAGGATGCAAGGATACCACCCTCTTCCTGTGGAAAGTGTCGAATCACATGCAGA
GCTCTAAGTCTTTCAGTTACTTTGGAGTGCAGAACCATTTCAGAC**ATG**CTGAGGGGGACTCTACTGTGCGCGGTG
CTCGGGCTTCTGCGCGCCCAGCCCTTCCCCTGTCCGCCAGCTTGCAAGTGTGTCTTCCGGGACGCCGCGCAGTGC
TCGGGGGGCGACGTGGCGCGCATCTCCGCGCTGGGCCTGCCCACCAACCTCACGCACATCCTGCTCTTCGGAATG
GGCCGCGGCGTCCTGCAGAGCCAGAGCTTCAGCGGCATGACCGTCCTGCAGCGCCTCATGATCTCCGACAGCCAC
ATTTCCGCCGTTGCCCCCGGCACCTTCAGTGACCTGATAAAACTGAAAACCCTGAGGCTGTCGCGCAACAAAATC
ACGCATCTTCCAGGTGCGCTGCTGGATAAGATGGTGCTCCTGGAGCAGTTGTTTTTGGACCACAATGCGCTAAGG
GGCATTGACCAAAACATGTTTCAGAAACTGGTTAACCTGCAGGAGCTCGCTCTGAACCAGAATCAGCTCGATTTC
CTTCCTGCCAGTCTCTTCACGAATCTGGAGAACCTGAAGTTGTTGGATTTATCGGGAAACAACCTGACCCACCTG
CCCAAGGGGTTGCTTGGAGCACAGGCTAAGCTCGAGAGACTTCTGCTCCACTCGAACCGCCTTGTGTCTCTGGAT
TCGGGGCTGTTGAACAGCCTGGGCGCCCTGACGGAGCTGCAGTTCCACCGAAATCACATCCGTTCCATCGCACCC
GGGGGCCTTCGACCGGCTCCCAAACCTCAGTTCTTTGACGCTTTCGAGAAACCACCTTGCGTTTCTCCCCTCTGCG
CTCTTTCTTCATTCGCACAATCTGACTCTGTTGACTCTGTTCGAGAACCCGCTGGCAGAGCTCCCGGGGGTGCTC
TTCGGGGGAGATGGGGGGGGCCTGCAGGAGCTGTGTGGCTGAACCGCACCCAGCTGCGCACCCTGCCCGCCGCCGCCTTC
CGCAACCTGAGCCGCCTGCGGTACTTAGGGGGTGACTCTGAGCCCGCGGCTGAGCGCGCTTCCGCAGGGCGCCTTC
CAGGGCCTTGGCGAGCTCCAGGTGCTCGCCCTGCACTCCAACGGCCTGACCGCCCTCCCCGACGGCTTGCTGCGC
GGCCTCGGCAAGCTGCGCCAGGTGTCCCTGCGCCGCAACAGGCTGCGCGCCCTGCCCCGTGCCCTCTTCCGCAAT
CTCAGCAGCCTGGAGAGCGTCCAGCTCGACCACAACCAGCTGGAGACCCTGCCTGGCGACGTGTTTGGGGCTCTG
CCCCGGCTGACGGAGGTCCTGTTGGGGCACAACTCCTGGCGCTGCGACTGTGGCCTGGGGCCCTTCCTGGGGTGG
CTGCGGCAGCACCTAGGCCTCGTGGGCGGGGAAGAGCCCCCACGGTGCGCAGGCCCTGGGGCGCACGCCGGCCTG
CCGCTCTGGGCCCTGCCGGGGGGTGACGCGGAGTGCCCGGGCCCCCGGGGCCCGCCTCCCCGCCCCGCTGCGGAC
AGCTCCTCGGAAGCCCCTGTCCACCCAGCCTTGGCTCCCAACAGCTCAGAACCCTGGGTGTGGGCCCAGCCGGTG
ACCACGGGCAAAGGTCAAGATCATAGTCCGTTCTGGGGGTTTTATTTTCTGCTTTTAGCTGTTCAGGCCATGATC
ACCGTGATCATCGTGTTTGCTATGATTAAAATTGGCCAACTCTTTCGAAAATTAATCAGAGAGAGAGCCCTTGGG
TAAACCAATGGGAAAATCTTCTAATTACTTAGAACCTGACCAGATGTGGCTCGGAGGGGAATCCAGACCCGCTGC
TGTCTTGCTCTCCCTCCCCTCCCCACTCCTCCTCTCTTCTTCCTCTTCTCTCTCACTGCCACGCCTTCCTTTCCC
TCCTCCTCCCCCTCTCCGCTCTGTGCTCTTCATTCTCACGGGCCCGCAACCCCTCCTCTCTCTGTCCCCGCCCGT
CTCTGGAAACTGAGCTTGACGTTTGTAAACTGTGGTTGCCTGCCTTCCCAGCTCCACGCGGTGTGCGCTGACACT
GCCGGGGGGGCTGGACTGTGTTGGACCCATCCTTGCCCCGCTGTGCCTGGCTTGGCCTCTGGTGGAGAGAGGGACC
TCTTCAGTGTCTACTGAGTAAGGGGACAGCTCCAGGCCGGGGCTGTCTCCTGCACAGAGTAAGCCGGTAAATGTT
TGTGAAATCAATGCGTGGATAAAGGAACACATGCCATCCAAGTGATGATGGCTTTTCCTGGAGGGAAAGGATAGG
CTGTTGCTCTATCTAATTTTTTGTTTTTGTTTTTGGACAGTCTAGCTCTGTGGCCCAGGCTGGCGTGCAGTGGGC
CGTCTCAGTTCACTGCAGCCTCCGCCCTCCAGGTTCAAGTGATTCTCATGCCTCAGCGTTCTGAGTAGCTGGGAT
TAGAGGCGTGTGCCACTACACCCGGCTAATTTTTGTACTTTTTAAAGTAGAGACGGGCTTTGCCATATTGGCCTG
GCTGATCTCAAACTCCTGGTCTTGAACTCCTGGCCACAAGTGATCTGCCCGCCTTAGCCTCCCAAAGTGCTGGGA
TTACAGGCGCAAGCCACTACACCTGCCCTCTTCATCGAATTTATTTGAGAAGTAGAGCTCTTGCCATTTTTTCC
CTTGCTCCATTTTTCTCACTTTATGTCTCTCTGACCTATGGGCTACTTGGGAGAGCACTGGACTCCATTCATGCA
TGAGCATTTTCAGGATAAGCGACTTCTGTGAGGCTGAGAGAGGAAGAAAACACGGAGCCTTCCCTCCAGGTGCCC
AGTGTAGGTCCAGCGTGTTTCCTGAGCCTCCTGTGAGTTTCCACTTGCTTTACATCCATGCAACATGTCATTTTG
AAACTGGATTGATTTGCATTTCCTGGAACTCTGCCACCTCATTTCACAAGCATTTATGGAGCAGTTAACATGTGA
CTGGTATTCATGAATATAATGATAAGCTTGATTCTAGTTCAGCTGCTGTCACAGTCTCATTTGTTCTTCCAACTG
AAAGCCGTAAAACCTTTGTTGCTTTAATTGAATGTCTGTGCTTATGAGAGGCAGTGGTTAAAACATTTTCTGGCG
AGTTGACAACTGTGGGTTCAAATCCCAGCTCTACCACTTACTAACTGCATGGGACTTTGGGTAAGACACCTGCTT
ACATTCTCTAAGCCTTGGTTTCCTGAACCTTAAAACAGGATAACATAGTACCTGCTTCATAGAGTTTTGTGAGAA
TTAAAGGCAATAAAGCATATAATGACTTAGCCCAGCGGCCTGCAGACAATACATGTTAATGAATGTTAGCTATTA
TTACTAAAGATGAGCAATTATTATTGGCATCATGATTTCTAAAGAAGAGCTTTGAGTTGGTATTTTTCTCTGTGT

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FIGURE 2055B

ATAAGGGTAAGTCCGAACTTTCTCATACTGGAGGTTACATTCACATCAGTCTGTCTTCCCCTGCGGATGGCCTCA
GCCCTGGGTGGCCAGGCTCTGTGCTCACAGTCCAGAGCAATGGATCCTCCAACACCACCAGGTGGATGTGGAGCA
GGAGAGCTGGATCGTGGCATTTGTTTCTGGGTTCTGCAGTTGGGAGTTGGTTTCTGGGTTCTCCATTGGTCTACT
TGTCTAGTCCCATACCAGACTCACGGTCTCCATTATTGGAGCTTTAATAATTTTTGGTATAGGGTCATCTCTCCA
CCTTGTTTTTCTTCTATTCTTGGTTCTTTGCAATTCTATGAATATTTCAGGGTCAGCATGTCAACTCCATTGAAA
AACCCTGCTGGGATTTTAATAGAACTTACAGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGG
ATCACAGGTCAGGAGTTTGAGAACAGCTGGCCAAGATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGC
TGGGTGCGGTGGCAGGTGCCTGTAGTCCCAGCTACTTGGGACACCGAGGCAGGAGAATCACTTGAACCCGGGAGG
CGGAGGTTGCAGTGAGCCGAGATCGTGCCACTGCACTCTAGCCTGGGCGACAGAGCGAGACTCCATCTCAAAAAA
AAAGAAAAAGAAAATTGCAGTAAATTTAAAACTAATTTGGGGAAGAATCTGTATTTTTACAATACCTAGTGTTCT
TGCCAGTAAGCATGGTTCATCTTCCCATTTATTTACGTCATTTTAAATCTTTCAGTGATGTTTTAGAATTTTTTT
TATAAAAACCTTCACTATAAGAACAGAAAACCAAACACCGCATGTTCTCACTCATAGGTGGGAATTGAACAATGA
GAACACTTGGACACAGGGCGGGGAACGTCACACGCCTGGACTGTTGGGGGGGTGGCTGGGAGAGGGATAGTGTTA
GGAGAAATACCTAATGTAAATGACGAGTTAATGGTGCAGCCAACCAACCTGGCACATGTATTCATATGTAACAAA
CCTGCACGTTGTGCACATGTACCCTAGAACTTAAAGTATATTAAAAAAAGAAACCTTGGCACTGATTTTGTTAGA
TTTATTCCTAGGTATCCTTCCTCTTTTTTGATTTGTCATTGCTATTGTAGATGGCATCTTTTTAAAAAGTTATAT
TTTCTAAAGCAAAAAATAAAAAAAGTTGTATTTCTAATTTTTATTACCAATATATAAGAATGTAATTTATTTTTA
CATAATTATCTTATGTCTAGTAATAATTCTGATAATTTGCTTCTTCCTATTAAAACCTTACACCCATTATTGATT
TATTTTTCTGTTTTAAAATATCTTCCTGCACTGGCTAAAACCTCCACTATAATGTTGAGCAGAACAGTGAGGCAT
CCTTAGAACTATCTTGGTTGCAAAGGGTAGGTCTCTAATGTTTCATCAATAAATGTGATGTTTCTAGTCTGAGTT
TGCTAAGTATATTTTAAAATAATCAGTAAAGTTAGATTTTATCCATTTTTATCTTAACTATTGAGATGCTCATAT
CATTTTTCTTCTTCAATGTGTTAAAATGGTGA

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FIGURE 2056

MLRGTLLCAVLGLLRAQPFPCPPACKCVFRDAAQCSGGDVARISALGLPTNLTHILLFGMGRGVLQSQSFSGMTV
LQRLMISDSHISAVAPGTFSDLIKLKTLRLSRNKITHLPGALLDKMVLLEQLFLDHNALRGIDQNMFQKLVNLQE
LALNQNQLDFLPASLFTNLENLKLLDLSGNNLTHLPKGLLGAQAKLERLLLHSNRLVSLDSGLLNSLGALTELQF
HRNHIRSIAPGAFDRLPNLSSLTLSRNHLAFLPSALFLHSHNLTLLTLFENPLAELPGVLFGEMGGLQELWLNRT
QLRTLPAAAFRNLSRLRYLGVTLSPRLSALPQGAFQGLGELQVLALHSNGLTALPDGLLRGLGKLRQVSLRRNRL
RALPRALFRNLSSLESVQLDHNQLETLPGDVFGALPRLTEVLLGHNSWRCDCGLGPFLGWLRQHLGLVGGEEPPR
CAGPGAHAGLPLWALPGGDAECPGPRGPPPRPAADSSSEAPVHPALAPNSSEPWVWAQPVTTGKGQDHSPFWGFY
FLLLAVQAMITVIIVFAMIKIGQLFRKLIRERALG

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FIGURE 2057

AGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAATTGTTGAAGCATTGGTAACTCCAGTC
TCTAACGTTTTAGAAAATCATAACAAGCGGTTCTGTACCCTGTAAAGAACAGAAACCTGGAAATCTAAGGCTCAA
AGACATCCAAGTAATTGGTATCTGGGAGATTTGGGATTCAAACCCAGCTCTGCTTGACTTGGTGAACTACTGAGT
TCTTCATT**ATG**TCTGATGGAGATTATGATTACCTCATCAAGTTTTTAGCTTTGGGAGACTCTGGTGTAGGGAAGA
CCAGTGTACTTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCATTGATTTCAGGC
CAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGGATGGACCAGTAGGTAGAGGCCAGAGAATCCACCTGCAGTTAT
GGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGGGTTTTCTTCTAC
TTTTTGATCTGACAAATGAGCAAAGTTTCCTCAATGTCAGAAACTGGATAAGCCAGCTACAGATGCATGCATATT
GTGAAAACCCAGATATAGTGCTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGAAAGAGGAGGAAG
CCATAGCACTCGCAGAGAAATATGGAATCCCCTACTTTGAAACTAGTGCTGCCAATGGGACAAACATAAGCCAAG
CAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCCTGGATTCCTGAAGGAG
TGGTGCGATCAAATGGTCATGCCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAGGGGCATGTGGCTGT**TGA**G
AAGTCAAGTAACGACATAGTAGTTCAGGTGGCCCATGCCTGGGATCTTCTCTATGATTGATACATGGCACAGTGA
GAGATTAATGGGCATTGTGTACAAATTGCTTCTCACCATCCCCATTAGACCTACGAATAAAGCATCCGGTTCTAA
AATTAAAAAAA

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FIGURE 2058

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFRPKRVVYRASGPDGPVGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRSNGHASTDQLSEEKEKGACGC

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FIGURE 2059

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GGCCACAGGCCAGCGCCACTCTGCCCAGGCTCCCGGCCATCGCCCGCCTGGTGCGCCGCCCGCCAGCTCTTTGCCC
GCGCGGGGCCGCCCGCCGCGGGCTCAGGGCAGACCATGCGCCCGCCAAGTCCGCTGCCCGCCCGCTGGCTATGCG
TGCTGGCAGGCGCCCTCGCCTGGGCCCTTGGGCCGGCGGGCGGCCAGGCGGCCAGGCTGCAGGAGGAGTGTGACT
ATGTGCAGATGATCGAGGTGCAGCACAAGCAGTGCCTGGAGGAGGCCCAGCTGGAGAATGAGACAATAGGCTGCA
GCAAGATGTGGGACAACCTCACCTGCTGGCCAGCCACCCCTCGGGGCCAGGTAGTTGTCTTGGCCTGTCCCCTCA
TCTTCAAGCTCTTCTCCTCCATTCAAGGCCGCAATGTAAGCCGCAGCTGCACCGACGAAGGCTGGACGCACCTGG
AGCCTGGCCCGTACCCCATTGCCTGTGGTTTGGATGACAAGGCAGCGAGTTTGGATGAGCAGCAGACCATGTTCT
ACGGTTCTGTGAAGACCGGCTACACCATTGGCTACGGCCTGTCCCTCGCCACCCTTCTGGTCGCCACAGCTATCC
TGAGCCTGTTCAGGAAGCTCCACTGCACGCGGAACTACATCCACATGCACCTCTTCATATCCTTCATCCTGAGGG
CTGCCGCTGTCTTCATCAAAGACTTGGCCCTCTTCGACAGCGGGGAGTCGGACCAGTGCTCCGAGGGCTCGGTGG
GCTGTAAGGCAGCCATGGTCTTTTTCCAATATTGTGTCATGGCTAACTTCTTCTGGCTGCTGGTGGAGGGCCTCT
ACCTGTACACCCTGCTTGCCGTCTCCTTCTTCTCTGAGCGGAAGTACTTCTGGGGGTACATACTCATCGGCTGGG
GGGTACCCAGCACATTCACCATGGTGTGGACCATCGCCAGGATCCATTTTGAGGATTATGGGTGCTGGGACACCA
TCAACTCCTCACTGTGGTGGATCATAAAGGGCCCCATCCTCACCTCCATCTTGGTAAACTTCATCCTGTTTATTT
GCATCATCCGAATCCTGCTTCAGAAACTGCGGCCCCCAGATATCAGGAAGAGTGACAGCAGTCCATACTCAAGGC
TAGCCAGGTCCACACTCCTGCTGATCCCCCTGTTTGGAGTACACTACATCATGTTCGCCTTCTTTCCGGACAATT
TTAAGCCTGAAGTGAAGATGGTCTTTGAGCTCGTCGTGGGGTCTTTCCAGGGTTTTGTGGTGGCTATCCTCTACT
GCTTCCTCAATGGTGAGGTGCAGGCGGAGCTGAGGCGGAAGTGGCGGCGCTGGCACCTGCAGGGCGTCCTGGGCT
GGAACCCCAAATACCGGCACCCGTCGGGAGGCAGCAACGGCGCCACGTGCAGCACGCAGGTTTCCATGCTGACCC
GCGTCAGCCCAGGTGCCCGCCGCTCCTCCAGCTTCCAAGCCGAAGTCTCCCTGGTCTGACCACCAGGATCCCAGG
GGCCCAAGGCGGCCCCTCCCGCCCCTTCCCACTCACCCCGGCAGACGCCGGGGACAGAGGCCTGCCCGGGCGCGG
CCAGCCCCGGCCCTGGGCTCGGAGGCTGCCCCCGGCCCCCTGGTCTCTGGTCCGGACACTCCTAGAGAACGCAGC
CCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAGCTCCTCTCCTGGAGGATTGCAGGTGGAAC
TCAGTCATTAGACTCCTCCTCCAAAGGCCCCCTACGCCAATCAAGGGCAAAAAGTCTACATACTTTCATCCTGAC
TCTGCCCCCTGCTGGCTCTTCTGCCCAATTGGAGGAAAGCAACCGGTGGATCCTCAAACAACACTGGTGTGACCT
GAGGGCAGAAAGGTTCTGCCCGGGGAAGGTCACCAGCACCAACACCACGGTAGTGCCTGAAATTTCACCATTGCT
GTCAAGTTCCTTTGGGTTAAGCATTACCACTCAGGCATTTGACTGAAGATGCAGCTCACTACCCTATTCTCTCTT
TACGCTTAGTTATCAGCTTTTTAAAGTGGGTTATTCTGGAGTTTTTGTTTGGAGAGCACACCTATCTTAGTGGTT
CCCCACCGAAGTGGACTGGCCCCTGGGTCAGTCTGGTGGGAGGACGGTGCAACCCAAGGACTGAGGGACTCTGAA
GCCTCTGGGAAATGAGAAGGCAGCCACCAGCGAATGCTAGGTCTCGGACTAAGCCTACCTGCTCTCCAAGTCTCA
GTGGCTTCATCTGTCAAGTGGGATCTGTCACACCAGCCATACTTATCTCTCTGTGCTGTGGAAGCAACAGGAATC
AAGAGCTGCCCTCCTTGTCCACCCACCTATGTGCCAACTGTTGTAACTAGGCTCAGAGATGTGCACCCATGGGCT
CTGACAGAAAGCAGATACCTCACCCTGCTACACATACAGGATTTGAACTCAGATCTGTCTGATAGGAATGTGAAA
GCACGGACTCTTACTGCTAACTTTTGTGTATCGTAACCAGCCAGATCCTCTTGGTTATTTGTTTACCACTTGTAT
TATTAATGCCATTATCCTGAATTCCCCTTGCCACCCCACCCTCCCTGGCGTGTGGCTGAGGAGGCCTCCATCTCA
TGTATCATCTGGATAGGAGCCTGCTGGTCACAGCCTCCTCTGTCTGCCCTTCACCCCAGTGGCCACTCAGCTTCC
TACCCACACCTCTGCCAGAAGATCCCCTCAGGACTGCAACAGGCTTGTGCAACAATAAATGTTGGCTTGGA
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FIGURE 2060

MRPPSPLPARWLCVLAGALAWALGPAGGQAARLQEECDYVQMIEVQHKQCLEEAQLENETIGCSKMWDNLTCWPA
TPRGQVVVLACPLIFKLFSSIQGRNVSRSCTDEGWTHLEPGPYPIACGLDDKAASLDEQQTMFYGSVKTGYTIGY
GLSLATLLVATAILSLFRKLHCTRNYIHMHLFISFILRAAAVFIKDLALFDSGESDQCSEGSVGCKAAMVFFQYC
VMANFFWLLVEGLYLYTLLAVSFFSERKYFWGYILIGWGVPSTFTMVWTIARIHFEDYGCWDTINSSLWWIIKGP
ILTSILVNFILFICIIRILLQKLRPPDIRKSDSSPYSRLARSTLLLIPLFGVHYIMFAFFPDNFKPEVKMVFELV
VGSFQGFVVAILYCFLNGEVQAELRRKWRRWHLQGVLGWNPKYRHPSGGSNGATCSTQVSMLTRVSPGARRSSSF
QAEVSLV

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FIGURE 2061

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TAACCCGCCGCCTCCGCTCTCCCCGGCTGCAGGCGGCGTGCAGGACCAGCGGCGGCCGTGCAGGCGGAGGACTTC
GGCGCGGCTCCTCCTGGGTGTGACCCCGGGCGCGCCCGCCGCGCGACGATGAGGGCGCGGCCGCAGGTCTGCGAG
GCGCTGCTCTTCGCCCTGGCGCTCCAGACCGGCGTGTGCTATGGCATCAAGTGGCTGGCGCTGTCCAAGACACCA
TCGGCCCTGGCACTGAACCAGACGCAACACTGCAAGCAGCTGGAGGGTCTGGTGTCTGCACAGGTGCAGCTGTGC
CGCAGCAACCTGGAGCTCATGCACACGGTGGTGCACGCCGCCCGCGAGGTCATGAAGGCCTGTCGCCGGGCCTTT
GCCGACATGCGCTGGAACTGCTCCTCCATTGAGCTCGCCCCCAACTATTTGCTTGACCTGGAGAGAGGGACCCGG
GAGTCGGCCTTCGTGTATGCGCTGTCGGCCGCCGCCATCAGCCACGCCATCGCCCGGGCCTGCACCTCCGGCGAC
CTGCCCGGCTGCTCCTGCGGCCCCGTCCCAGGTGAGCCACCCGGGCCCGGGAACCGCTGGGGAGGATGTGCGGAC
AACCTCAGCTACGGGCTCCTCATGGGGGCCAAGTTTTCCGATGCTCCTATGAAGGTGAAAAAAACAGGATCCCAA
GCCAATAAACTGATGCGTCTACACAACAGTGAAGTGGGGAGACAGGCTCTGCGCGCCTCTCTGGAAATGAAGTGT
AAGTGCCATGGGGTGTCTGGCTCCTGCTCCATCCGCACCTGCTGGAAGGGGCTGCAGGAGCTGCAGGATGTGGCT
GCTGACCTCAAGACCCGATACCTGTCGGCCACCAAGGTAGTGCACCGACCCATGGGCACCCGCAAGCACCTGGTG
CCCAAGGACCTGGATATCCGGCCTGTGAAGGACTCGGAACTCGTCTATCTGCAGAGCTCACCTGACTTCTGCATG
AAGAATGAGAAGGTGGGCTCCCACGGGACACAAGACAGGCAGTGCAACAAGACATCCAACGGAAGCGACAGCTGC
GACCTTATGTGCTGCGGGCGTGGCTACAACCCCTACACAGACCGCGTGGTCGAGCGGTGCCACTGTAAGTACCAC
TGGTGCTGCTACGTCACCTGCCGCAGGTGTGAGCGTACCGTGGAGCGCTATGTCTGCAAGTGAGGCCCTGCCCTC
CGCCCCACGCAGGAGCGAGGACTCTGCTCAAGGACCCTCAGCAACTGGGGCCAGGGGCCTGGAGACACTCCATGG
AGCTCTGCTTGTGAATTCCAGATGCCAGGCATGGGAGGCGGCTTGTGCTTTGCCTTCACTTGGAAGCCACCAGGA
ACAGAAGGTCTGGCCACCCTGGAAGGAGGGCAGGACATCAAAGGAAACCGACAAGATTAAAAATAACTTGGCAGC
CTGAGGCTCTGGAGTGCCCACAGGCTGGTGTAAGGAGCGGGGCTTGGGATCGGTGAGACTGATACAGACTTGACC
TTTCAGGGCCACAGAGACCAGCCTCCGGGAAGGGGTCTGCCCGCCTTCTTCAGAATGTTCTGCGGGACCCCCTGG
CCCACCCTGGGGTCTGAGCCTGCTGGGCCCACCACATGGAATCACTAGCTTGGGTTGTAAATGTTTTCTTTTGTT
TTTTGCTTTTTCTTCCTTTGGGATGTGGAAGCTACAGAAATATTTATAAAACATAGCTTTTTCTTTGGGGTGGCA
CTTCTCAATTCCTCTTTATATATTTTATATATATAAATATATATGTATATATATAATGATCTCTATTTTAAAACT
AGCTTTTTAAGCAGCTGTATGAAATAAATGCTGAGTGAGCCCCAGCCCGCCCCTGCAGTTCCCGGCCTCGTCAAG
TGAACTCGGCAGACCCTGGGGCTGGCAGAGGGAGCTCTCCAGTTTCCAGGCA
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2271/2682
FIGURE 2062

MRARPQVCEALLFALALQTGVCYGIKWLALSKTPSALALNQTQHCKQLEGLVSAQVQLCRSNLELMHTVVHAARE
VMKACRRAFADMRWNCSSIELAPNYLLDLERGTRESAFVYALSAAAISHAIARACTSGDLPGCSCGPVPGEPPGP
GNRWGGCADNLSYGLLMGAKFSDAPMKVKKTGSQANKLMRLHNSEVGRQALRASLEMKCKCHGVSGSCSIRTCWK
GLQELQDVAADLKTRYLSATKVVHRPMGTRKHLVPKDLDIRPVKDSELVYLQSSPDFCMKNEKVGSHGTQDRQCN
KTSNGSDSCDLMCCGRGYNPYTDRVVERCHCKYHWCCYVTCRRCERTVERYVCK

2272/2682
FIGURE 2063

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GGCACGAGGGGCGGCGGAGCCGACTCGTCGCGGCCGAGGCGCACGCGGTCCGCGCCGGCGTCAGTCTGGGATTGG
CCGGCCCGCGACTTCCTCCGCCCCCTGCCAATCGCCGGGGACGACTTCCGTGGGTTTTTCCGGCTCTCCCGCGTC
GCTAAGGAGCGACGGGCTGTCGGCCAGACCCCGAGTTCTCGGTGCGCTCAGCGGCCGCCGACGCTAGGAGGCCGC
GCTCCGCCCCCGCTACC**ATG**AGGCCCCGGAAAGCCTTCCTGCTCCTGCTGCTCTTGGGGCTGGTGCAGCTGCTGG
CCGTGGCGGGTGCCGAGGGCCCGGACGAGGATTCTTCTAACAGAGAAAATGCCATTGAGGATGAAGAGGAGGAGG
AGGAGGAAGATGATGATGAGGAAGAAGACGACTTGGAAGTTAAGGAAGAAAATGGAGTCTTGGTCCTAAATGATG
CAAACTTTGATAATTTTGTGGCTGACAAAGACACAGTGCTGCTGGAGTTTTATGCTCCATGGTGTGGACATTGCA
AGCAGTTTGCTCCGGAATATGAAAAAATTGCCAACATATTAAAGGATAAAGATCCTCCCATTCCTGTTGCCAAGA
TCGATGCAACCTCAGCGTCTGTGCTGGCCAGCAGGTTTGATGTGAGTGGCTACCCCACCATCAAGATCCTTAAGA
AGGGGCAGGCTGTAGACTACGAGGGCTCCAGAACCCAGGAAGAAATTGTTGCCAAGGTCAGAGAAGTCTCCCAGC
CCGACTGGACGCCTCCACCAGAAGTCACGCTTGTGTTGACCAAAGAGAACTTTGATGAAGTTGTGAATGATGCAG
ATATCATTCTGGTGGAGTTTTATGCCCCATGGTGTGGACACTGCAAGAAACTTGCCCCCGAGTATGAGAAGGCCG
CCAAGGAGCTCAGCAAGCGTTCTCCTCCAATTCCCCTGGCAAAGGTCGACGCCACCGCAGAAACAGACCTGGCCA
AGAGGTTTGATGTCTCTGGCTATCCCACCCTGAAAATTTTCCGCAAAGGAAGGCCTTATGACTACAACGGCCCAC
GAGAAAAATATGGAATCGTTGATTACATGATCGAGCAGTCCGGGCCTCCCTCCAAGGAGATTCTGACCCTGAAGC
AGGTCCAGGAGTTCCTGAAGGATGGAGACGATGTCATCATCATCGGGGTCTTTAAGGGGGAGAGTGACCCAGCCT
ACCAGCAATACCAGGATGCCGCTAACAACCTGAGAGAAGATTACAAATTTCACCACACTTTCAGCACAGAAATAG
CAAAGTTCTTGAAAGTCTCCCAGGGGCAGTTGGTTGTAATGCAGCCTGAGAAATTCCAGTCCAAGTATGAGCCCC
GGAGCCACATGATGGACGTCCAGGGCTCCACCCAGGACTCGGCCATCAAGGACTTCGTGCTGAAGTACGCCCTGC
CCCTGGTTGGCCACCGCAAGGTGTCAAACGATGCTAAGCGCTACACCAGGCGCCCCCTGGTGGTCGTCTACTACA
GTGTGGACTTCAGCTTTGATTACAGAGCTGCAACTCAGTTTTGGCGGAGCAAAGTCCTAGAGGTGGCCAAGGACT
TCCCTGAGTACACCTTTGCCATTGCGGACGAAGAGGACTATGCTGGGGAGGTGAAGGACCTGGGGCTCAGCGAGA
GTGGGGAGGATGTCAATGCCGCCATCCTGGACGAGAGTGGGAAGAAGTTCGCCATGGAGCCAGAGGAGTTTGACT
CTGACACCCTCCGCGAGTTTGTCACTGCTTTCAAAAAAGGAAAACTGAAGCCAGTCATCAAATCCCAGCCAGTGC
CCAAGAACAACAAGGGACCCGTCAAGGTCGTGGTGGGAAAGACCTTTGACTCCATTGTGATGGACCCCAAGAAGG
ACGTCCTCATCGAGTTCTACGCACCATGGTGCGGGCACTGCAAGCAGCTAGAGCCCGTGTACAACAGCCTGGCCA
AGAAGTACAAGGGCCAAAAGGGCCTGGTCATCGCCAAGATGGACGCCACTGCCAACGACGTCCCCAGCGACCGCT
ATAAGGTGGAGGGCTTCCCCACCATCTACTTCGCCCCCAGTGGGGACAAAAAGAACCCAGTTAAATTTGAGGGTG
GAGACAGAGATCTGGAGCATTTGAGCAAGTTTATAGAAGAACATGCCACAAAACTGAGCAGGACCAAGGAAGAGC
TT**TGA**AGGCCTGAGGTCTGCGGAAGGTGGGAGGAGGCAGACACCCTGCGTGGCCCATGGTCGGGGCGTCCACGCC
GAGGCCGGCAACAAACGACAGTATCTCGGATTCCTTTTTTTTTTTTTTTAATTTTTTATACTTTGGTGTTTCAC
TTCATGCTCTGAATACTGAATAACCATGAATGACTGAATAGTTTAGTCCAGATTTTTACAGAGGATACATCTATT
TTTATCATTATTTGGGGTTTGAAAAATTTTTTTTTTACACCTTCTAATTTCTTTATTTCTCAAAGCAGATAATTCT
TCTGTGTGAAAATGTTTTCTTTTTTTAATTTAAGGTTTAAAATTCCTTTGCCAAATCATGTTGATTTTGCTCTTT
GCTTTTTCGTTGTCTGAGAAATTGTTGGCGTAGATTTGGCTTCTGGTATGTGTTTCTGATTGCTTCCTGTTGAGC
ACAAAGTGAGAGCTGCCACTGAGCAGCCCTGCCAGGGGTGCTGTTTCAGGCTGGGCATCGCCAGGCGGCCTCCCT
GCAAACCAAGGGCTGGGGGCAAAGGGGCATGATCCAGGGTCCCCCAGGGTGGGCTCAGCTCCAGGGAGAGGCCAC
CCACGTGGCAGCCCCACCTCTTGAGAGCCCCCAGTGCCGGAGCAGAAAGGACCCTGGACCCAGAGGCAGATACTG
CGGGGTGGTAGAAAAGGTAGAGTAGGCTGTGGCAATGGAATAAAACACGATTAAAAACGTTAAAAAAAAAAAAAAA
AAAAA
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2273/2682
FIGURE 2064

MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSNRENAIEDEEEEEEEDDDEEEDDLEVKEENGVLVLNDANFDNF
VADKDTVLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLASRFDVSGYPTIKILKKGQAVD
YEGSRTQEEIVAKVREVSQPDWTPPPEVTLVLTKENFDEVVNDADIILVEFYAPWCGHCKKLAPEYEKAAKELSK
RSPPIPLAKVDATAETDLAKRFDVSGYPTLKIFRKGRPYDYNGPREKYGIVDYMIEQSGPPSKEILTLKQVQEFL
KDGDDVIIIGVFKGESDPAYQQYQDAANNLREDYKFHHTFSTEIAKFLKVSQGQLVVMQPEKFQSKYEPRSHMMD
VQGSTQDSAIKDFVLKYALPLVGHRKVSNDAKRYTRRPLVVVYYSVDFSFDYRAATQFWRSKVLEVAKDFPEYTF
AIADEEDYAGEVKDLGLSESGEDVNAAILDESGKKFAMEPEEFDSDTLREFVTAFKKGKLKPVIKSQPVPKNNKG
PVKVVVGKTFDSIVMDPKKDVLIEFYAPWCGHCKQLEPVYNSLAKKYKGQKGLVIAKMDATANDVPSDRYKVEGF
PTIYFAPSGDKKNPVKFEGGDRDLEHLSKFIEEHATKLSRTKEEL

2274/2682
FIGURE 2065

GGAATTCCCTGATATACACCTGGACCACCACCA**ATG**GATATACAAATGGCAAACAATTTTACTCCGCCCTCTGCA
ACTCCTCAGGGAAATGACTGTGACCTCTATGCACATCACAGCACGGCCAGGATAGTAATGCCTCTGCATTACAGC
CTCGTCTTCATCATTGGGCTCGTGGGAAACTTACTAGCCTTGGTCGTCATTGTTCAAAACAGGAAAAAAATCAAC
TCTACCACCCTCTATTCAACAAATTTGGTGATTTCTGATATACTTTTTACCACCGCTTTGCCTACACGAATAGCC
TACTATGCAATGGGCTTTGACTGGAGAATCGGAGATGCCTTGTGTAGGATAACTGCGCTAGTGTTTTACATCAAC
ACATATGCAGGTGTGAACTTTATGACCTGCCTGAGTATTGACCGCTTCATTGCTGTGGTGCACCCTCTACGCTAC
AACAAGATAAAAAGGATTGAACATGCAAAGGCGTGTGCATATTTGTCTGGATTCTAGTATTTGCTCAGACACTC
CCACTCCTCATCAACCCTATGTCAAAGCAGGAGGCTGAAAGGATTACATGCATGGAGTATCCAAACTTTGAAGAA
ACTAAATCTCTTCCCTGGATTCTGCTTGGGGCATGTTTCATAGGATATGTACTTCCACTTATAATCATTCTCATC
TGCTATTCTCAGATCTGCTGCAAACTCTTCAGAACTGCCAAACAAAACCCACTCACTGAGAAATCTGGTGTAAAC
AAAAAGGCTCTCAACACAATTATTCTTATTATTGTTGTGTTTGTTCTCTGTTTCACACCTTACCATGTTGCAATT
ATTCAACATATGATTAAGAAGCTTCGTTTCTCTAATTTCCTGGAATGTAGCCAAAGACATTCGTTCCAGATTTCT
CTGCACTTTACAGTATGCCTGATGAACTTCAATTGCTGCATGGACCCTTTTATCTACTTCTTTGCATGTAAAGGG
TATAAGAGAAAGGTTATGAGGATGCTGAAACGGCAAGTCAGTGTATCGATTTCTAGTGCTGTGAAGTCAGCCCCT
GAAGAAATTCACGTGAAATGA**CA**GAAACGCAGATGATGATACATTCCAAGTCTTCAAATGGAAAG**TGA**AATGGA
TTGTATTTTGGTTTATAGTGACGTAAACTGTATGACAAACTTTGCAGGACTTCCCTTATAAAGCAAAATAATTGT
TCAGCTTCCAATTAGTATTCTTTTATATTTCTTTCATTGGGCACTTTCCCATCTCCAACTCGGAAGTAAGCCCAA
GAGAACAACATAAAGCAAACAACATAAAGCACAATAAAAATGCAAATAAATATTTTCATTTTTATTTGTAAACGA
ATACACCAAAAGGAGGCGCTCTTAATAACTCCCAATGTAAAAAGTTTTGTTTTAATAAAAAATTTAATTATTATT
TCTTGCCAACAAATGGCTAGAAAGGACTGAATAGATTATATATTGCCAGATGTTAATACTGTAACATACTTTTTA
AATAACATATTTCTTAAATCCAAATTTCTCTCAATGTTAGATTTAATTCCCTCAATAACACCAATGTTTTGTTTT
GTTTCGTTCTGGGTCATAAAACTTTGTTAAGGAACTCTTTTGGAATAAAGAGCAGGATGCTGC

2275/2682
FIGURE 2066

MDIQMANNFTPPSATPQGNDCDLYAHHSTARIVMPLHYSLVFIIGLVGNLLALVVIVQNRKKINSTTLYSTNLVI
SDILFTTALPTRIAYYAMGFDWRIGDALCRITALVFYINTYAGVNFMTCLSIDRFIAVVHPLRYNKIKRIEHAKG
VCIFVWILVFAQTLPLLINPMSKQEAERITCMEYPNFEETKSLPWILLGACFIGYVLPLIIILICYSQICCKLFR
TAKQNPLTEKSGVNKKALNTIILIIVVFVLCFTPYHVAIIQHMIKKLRFSNFLECSQRHSFQISLHFTVCLMNFN
CCMDPFIYFFACKGYKRKVMRMLKRQVSVSISSAVKSAPEENSREMTETQMMIHSKSSNGK

FIGURE 2067

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GCGGAGCACAGTCCGCCGAGCACAAGCTCCAGCATCCCGTCAGGGGTTGCAGGTGTGTGGGAGGCTTGAAACTGT
TACAATATGGCTTTCCTTGGACTCTTCTCTTTGCTGGTTCTGCAAAGTATGGCTACAGGGGCCACTTTCCCTGAG
GAAGCCATTGCTGACTTGTCAGTGAATATGTATAATCGTCTTAGAGCCACTGGTGAAGATGAAAATATTCTCTTC
TCTCCATTGAGTATTGCTCTTGCAATGGGAATGATGGAACTTGGGGCCCAAGGATCTACCCAGAAAGAAATCCGC
CACTCAATGGGATATGACAGCCTAAAAAATGGTGAAGAATTTTCTTTCTTGAAGGAGTTTTCAAACATGGTAACT
GCTAAAGAGAGCCAATATGTGATGAAAATTGCCAATTCCTTGTTTGTGCAAAATGGATTTCATGTCAATGAGGAG
TTTTTGCAAATGATGAAAAAATATTTTAATGCAGCAGTAAATCATGTGGACTTCAGTCAAAATGTAGCCGTGGCC
AACTACATCAATAAGTGGGTGGAGAATAACACAAACAATCTGGTGAAAGATTTGGTATCCCCAAGGGATTTTGAT
GCTGCCACTTATCTGGCCCTCATTAATGCTGTCTATTTCAAGGGGAACTGGAAGTCGCAGTTTAGGCCTGAAAAT
ACTAGAACCTTTTCTTTCACTAAAGATGATGAAAGTGAAGTCCAAATTCCAATGATGTATCAGCAAGGAGAATTT
TATTATGGGGAATTTAGTGATGGCTCCAATGAAGCTGGTGGTATCTACCAAGTCCTAGAAATACCATATGAAGGA
GATGAAATAAGCATGATGCTGGTGCTGTCCAGACAGGAAGTTCCTCTTGCTACTCTGGAGCCATTAGTCAAAGCA
CAGCTGGTTGAAGAATGGGCAAACTCTGTGAAGAAGCAAAAAGTAGAAGTATACCTGCCCAGGTTCACAGTGGAA
CAGGAAATTGATTTAAAAGATGTTTTGAAGGCTCTTGGAATAACTGAAATTTTCATCAAAGATGCAAATTTGACA
GGCCTCTCTGATAATAAGGAGATTTTTCTTTCCAAAGCAATTCACAAGTCCTTCCTAGAGGTTAATGAAGAAGGC
TCAGAAGCTGCTGCTGTCTCAGGAATGATTGCAATTAGTAGGATGGCTGTGCTGTATCCTCAAGTTATTGTCGAC
CATCCATTTTTCTTTCTTATCAGAAACAGGAGAACTGGTACAATTCTATTCATGGGACGAGTCATGCATCCTGAA
ACAATGAACACAAGTGGACATGATTTCGAAGAACTTTAAGTTACTTTATTTGAATAACAAGGAAAACAGTAACTA
AGCACATTATGTTTGCAACTGGTATATATTTAGGATTTGTGTTTTACAGTATATCTTAAGATAATATTTAAAATA
GTTCCAGATAAAAACAATATATGTAAATTATAAGTAACTTGTCAAGGAATGTTATCAGTATTAAGCTAATGGTCC
TGTTATGTCATTGTGTTTGTGTGCTGTTGTTTAAAATAAAAGTACCTATTGAACATGTG
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2277/2682
FIGURE 2068

MAFLGLFSLLVLQSMATGATFPEEAIADLSVNMYNRLRATGEDENILFSPLSIALAMGMMELGAQGSTQKEIRHS
MGYDSLKNGEEFSFLKEFSNMVTAKESQYVMKIANSLFVQNGFHVNEEFLQMMKKYFNAAVNHVDFSQNVAVANY
INKWVENNTNNLVKDLVSPRDFDAATYLALINAVYFKGNWKSQFRPENTRTFSFTKDDESEVQIPMMYQQGEFYY
GEFSDGSNEAGGIYQVLEIPYEGDEISMMLVLSRQEVPLATLEPLVKAQLVEEWANSVKKQKVEVYLPRFTVEQE
IDLKDVLKALGITEIFIKDANLTGLSDNKEIFLSKAIHKSFLEVNEEGSEAAAVSGMIAISRMAVLYPQVIVDHP
FFFLIRNRRTGTILFMGRVMHPETMNTSGHDFEEL

2278/2682
FIGURE 2069

GGCGGCAGCGCCCTGCCGACGCCGGGGAGGGACGCAGGCAGGCGGCGGGCAGCGGGAGGCGGCACCCCGGTGCTC
CCCGCGGCTCTCGGCGGAGCCCCGCCGCCCGCCGCGCC**ATGG**CCCGAAGACCCCGGCACAGCATATATAGCAGTG
ACGAGGATGATGAGGACTTTGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCAAGTCTGGAAAGCGTCACT
TGGGGAAAACAAGGTGGACCCGGGAAGAGGATGAAAAACTGAAGAAGCTGGTGGAACAGAATGGAACAGATGACT
GGAAAGTTATTGCCAATTATCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACC
CTGAGCTCATCAAGGGTCCTTGGACCAAAGAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAATACGGTCCGA
AACGTTGGTCTGTTATTGCCAAGCACTTAAAGGGGGAGAATTGGAAAACAATGTAGGGAGAGGTGGCATAACCACT
TGAATCCAGAAGTTAAGAAAACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCAGGCACACAAGAGACTGG
GGAACAGATGGGCAGAAATCGCAAAGCTACTGCCTGGACGAACTGATAATGCTATCAAGAACCACTGGAATTCTA
CAATGCGTCGGAAGGTCGAACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAA
GCTTCCAGAAGAACAGTCATTTGATGGGTTTTGCTCAGGCTCCGCCTACAGCTCAACTCCCTGCCACTGGCCAGC
CCACTGTTAACAACGACTATTCCTATTACCACATTTCTGAAGCACAAAATGTCTCCAGTCATGTTCCATACCCTG
TAGCGTTACATGTAAATATAGTCAATGTCCCTCAGCCAGCTGCCGCAGCCATTCAGAGACACTATAATGATGAAG
ACCCTGAGAAGGAAAAGCGAATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAGCTAAAAGGACAGC
AGGTGCTACCAACACAGAACCACACATGCAGCTACCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGAC
CTCATGGAGACAGTGCACCTGTTTCCTGTTTGGGAGAACACCACTCCACTCCATCTCTGCCAGCGGATCCTGGCT
CCCTACCTGAAGAAAGCGCCTCGCCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGA
ACCTCTTAGAATTTGCAGAAACACTCCAATTTATAGATTCTTTCTTAAACACTTCCAGTAACCATGAAAACTCAG
ACTTGGAAATGCCTTCTTTAACTTCCACCCCCCTCATTGGTCACAAATTGACTGTTACAACACCATTTCATAGAG
ACCAGACTGTGAAAACTCAAAAGGAAAATACTGTTTTTAGAACCCCAGCTATCAAAAGGTCAATCTTAGAAAGCT
CTCCAAGAACTCCTACACCATTCAAACATGCACTTGCAGCTCAAGAAATTAAATACGGTCCCCTGAAGATGCTAC
CTCAGACACCCTCTCATCTAGTAGAAGATCTGCAGGATGTGATCAAACAGGAATCTGATGAATCTGGATTTGTTG
CTGAGTTTCAAGAAAATGGACCACCCTTACTGAAGAAAATCAAACAAGAGGTGGAATCTCCAACTGATAAATCAG
GAAACTTCTTCTGCTCACACCACTGGGAAGGGGACAGTCTGAATACCCAACTGTTCACGCAGACCTCGCCTGTGC
GAGATGCACCGAATATTCTTACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAG
CATTTACAGTACCTAAAAACAGGTCCCTGGCGAGCCCCTTGCAGCCTTGTAGCAGTACCTGGGAACCTGCATCCT
GTGGAAAGATGGAGGAGCAGATGACATCTTCCAGTCAAGCTCGTAAATACGTGAATGCATTCTCAGCCCGGACGC
TGGTCATG**TGA**GACATTTCCAGAAAAGCATTATGGTTTTCAGAACAGTTCAAGTTGACTTGGGTATATCATTCC
TCAACATGAAACTTTTCATGAATGGGAGAAGAACCTATTTTTGTTGTGGTACAACAGTTGAGAGCACGACCAAGT
GCATTTAGTTGAATGAAGTCTTCTTGGATTTCACCCAACTAAAAGGATTTTTAAAAATAAATAACAGTCTTACCT
AAATTATTAGGTAATGAATTGTAGCCAGTTGTTAATATCTTAATGCAGATTTTTTTAAAAAAAAAACATAAAATGA
TTTATCTGGTATTTTAAAGGATCCAACAGATCAGTATTTTTTCCTGTGATGGGTTTTTTGAAATTTGACACATTA
AAAGGTACTCCAGTATTTCACTTTTCTCGATCACTAAACATATGCATATATTTTTAAAAATCAGTAAAAGCATTA
CTCTAAGTGTAGACTTAATACCATGTGACATTTAATCCAGATTGTAAATGCTCATTTATGGTTAATGACATTGAA
GGTACATTTATTGTACCAAACCATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAATTATTACTGTAAGAAATAG
TTTTATAAAAAATTATATTTTTATTCAGTAATTTAATTTTGTAAATGCCAAATGAAAAACGTTTTTTGCTGCTAT
GGTCTTAGCCTGTAGACATGCTGCTAGTATCAGAGGGGCAGTAGAGCTTGGACAGAAAGAAAAGAAACTTGGTGT
TAGGTAATTGACTATGCACTAGTATTTCAGACTTTTTAATTTTATATATATATACATTTTTTTTCCTTCTGCAAT
ACATTTGAAAACTTGTTTGGGAGACTCTGCATTTTTTATTGTGGTTTTTTTGTTATTGTTGGTTTATACAAGCAT
GCGTTGCACTTCTTTTTTGGGAGATGTGTGTTGTTCATGTTCTATGTTTTGTTTTGTGTGTAGCCTGACTGTTTT
ATAATTTGGGAGTTCTCGATTTGATCCGCATCCCCTGTGGTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGA
TCCTGTGTTTGCAACTGGGGAGACAGAAACTGTGGTTGATAGCCAGTCACTGCCTTAAGAACATTTGATGCAAGA
TGGCCAGCACTGAACTTTTGAGATATGACGGTGTACTTACTGCCTTGTAGCAAAATAAAGATGTGCCCTTATTTT

2279/2682
FIGURE 2070

MARRPRHSIYSSDEDDEDFEMCDHDYDGLLPKSGKRHLGKTRWTREEDEKLKKLVEQNGTDDWKVIANYLPNRTD
VQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNPEVKKTSWTEE
EDRIIYQAHKRLGNRWAEIAKLLPGRTDNAIKNHWNSTMRRKVEQEGYLQESSKASQPAVATSFQKNSHLMGFAQ
APPTAQLPATGQPTVNNDYSYYHISEAQNVSSHVPYPVALHVNIVNVPQPAAAAIQRHYNDEDPEKEKRIKELEL
LLMSTENELKGQQVLPTQNHTCSYPGWHSTTIADHTRPHGDSAPVSCLGEHHSTPSLPADPGSLPEESASPARCM
IVHQGTILDNVKNLLEFAETLQFIDSFLNTSSNHENSDLEMPSLTSTPLIGHKLTVTTPFHRDQTVKTQKENTVF
RTPAIKRSILESSPRTPTPFKHALAAQEIKYGPLKMLPQTPSHLVEDLQDVIKQESDESGFVAEFQENGPPLLKK
IKQEVESPTDKSGNFFCSHHWEGDSLNTQLFTQTSPVRDAPNILTSSVLMAPASEDEDNVLKAFTVPKNRSLASP
LQPCSSTWEPASCGKMEEQMTSSSQARKYVNAFSARTLVM

2280/2682
FIGURE 2071A

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ATTTACGCGTTGCTGAATCTCCTGTGGACAAACCACCAATAGGCCAGGACTGTCCTGTGGACAGACGGGGTGAGC
CTCTTCTTGTGTCTGGAGATTCTGAAAAGATTTGATCACCAGGAGATTTTTCGGGACATTACCAAACCACTCATT
TTAGTGGCTGCCTCCGGGTGATGATGGCTGTGTGAACGACTGCC**ATG**GCCCACCGGAAGCTTGAGAGCGTGGGGA
GCGGCATGTTGGACCATAGGGTGAGACCAGGTCCTGTCCCTCACAGCCAGGAGCCCGAGAGCGAGGACATGGAGC
TGCCCTTGGAGGGCTATGTGCCCGAGGGCCTGGAGCTGGCTGCCCTGCGGCCAGAGAGCCCCGCGCCAGAGGAAC
AGGAGTGCCACAACCACAGCCCCGATGGGGACTCCAGCTCTGACTACGTGAACAACACCTCTGAGGAGGAGGACT
ATGACGAGGGCCTCCCTGAGGAGGAGGAGGGCATCACCTACTACATCCGCTACTGCCCTGAGGACGACAGCTACC
TAGAGGGCATGGACTGCAACGGGGAGGAGTACCTGGCCCACAGTGCACACCCTGTGGACACTGATGAGTGCCAGG
AGGCGGTGGAGGAGTGGACGGACTCGGCGGGCCCGCACCCCCACGGCCACGAGGCTGAAGGCAGCCAGGACTACC
CAGACGGCCAACTGCCCATTCCGGAGGATGAGCCCTCCGTCCTTGAGGCCCATGACCAGGAAGAAGATGGTCACT
ACTGTGCCAGCAAAGAGGGCTACCAGGACTACTACCCCGAGGAGGCCAACGGGAACACCGGCGCCTCCCCCTACC
GCCTGAGGCGTGGGGATGGGGACCTGGAGGACCAGGAGGAGGACATTGACCAGATCGTGGCAGAGATCAAGATGA
GTCTGAGCATGACCAGCATCACCAGCGCCAGTGAGGCCAGCCCCGAGCATGGGCCTGAGCCAGGGCCTGAGGACT
CTGTAGAGGCCTGCCCACCCATCAAGGCCAGCTGCAGCCCCAGCAGGCACGAGGCGAGGCCCAAGTCGCTGAACC
TCCTTCCCGAGGCCAAGCACCCCGGAGACCCCCAGAGAGGCTTCAAGCCCAAGACCAGGACCCCAGAAGAGAGGC
TGAAGTGGCCCCACGAGCAGGTTTGCAATGGTCTGGAGCAGCCAAGGAAGCAGCAGCGCTCTGATCTCAATGGAC
CTGTTGACAATAACAACATTCCAGAGACAAAGAAGGTGGCATCATTTCCAAGTTTTGTGGCTGTTCCAGGGCCCT
GCGAACCAGAAGACCTCATCGACGGGATCATCTTTGCTGCCAATTACCTGGGGTCCACCCAGCTGCTATCAGAAC
GGAACCCTTCCAAAAACATCAGAATGATGCAAGCGCAGGAGGCCGTCAGCCGGGTCAAGAGGATGCAAAAGGCTG
CTAAGATCAAGAAAAAAGCGAATTCTGAGGGGGGATGCCCAGACGCTGACGGAAGTGGACCTCTTCATTTCCACCC
AGAGGATCAAGGTTTTAAATGCAGACACGCAGGAAACCATGATGGACCACGCCTTGCGTACCATCTCCTACATCG
CCGACATTGGGAACATTGTAGTGCTGATGGCCAGACGCCGCATGCCCCGGTCAGCCTCTCAGGACTGCATCGAGA
CCACGCCCGGGGCCCAGGAAGGCAAGAAGCAGTATAAGATGATCTGCCATGTGTTCGAGTCGGAGGATGCCCAGC
TCATCGCCCAGTCTATCGGCCAGGCCTTCAGCGTGGCCTACCAGGAGTTCCTGCGAGCCAATGGCATCAACCCCG
AAGACTTGAGCCAGAAGGAATACAGCGACATCATCAACACCCAGGAGATGTACAACGACGACCTCATCCACTTCT
CAAACTCGGAGAACTGCAAGGAGCTGCAGCTGGAGAAGCACAAGGGCGAGATCCTGGGCGTGGTGGTGGTGGAGT
CGGGGCTGGGGCTCCATCCTGCCCACGGTGATCCTGGCCAACATGATGAATGGCGGCCCGGCTGCCCGCTCGGGGA
AGCTGAGCATCGGGGACCAGATCATGTCCATCAATGGCACCAGCCTGGTGGGGCTGCCCCTCGCCACCTGCCAAG
GCATCATCAAGGGCCTGAAGAACCAGACACAGGTGAAGCTCAACATTGTCAGCTGTCCCCCGGTCACCACGGTCC
TTATCAAGCGGCCAGACCTCAAGTACCAGCTGGGCTTCAGCGTGCAGAATGGAATTATCTGCAGCCTCATGAGAG
GGGGCATTGCTGAGCGAGGGGGCGTCCGTGTGGGCCACCGCATCATCGAGATCAACGGGCAGAGCGTGGTGGCCA
CAGCCCACGAGAAGATAGTCCAAGCTCTGTCCAACTCGGTCGGAGAGATCCACATGAAGACCATGCCCGCCGCCA
TGTTCAGGCTCCTCACGGGTCAGGAGACCCCGCTGTACATC**TAG**GCCACCCCAGCCTGGCCACGCAGCCAGGACA
CCGGGCAGGGCCGCCCGGGCCCAGAGGAGCTGGAGCCGGGCCGCAGACTTGACCCCGACGCCACAGCCCAGCCA
CGGACGCTGGCTCCCCAAAGGGTGTGCCCTCACCACCCACTTGATTTTTTTCATTTGCCAAAAAGGGGTATGTC
TTTATCAAAGGAGAGTCACAGAACAAATGTTTGTTTGTAAAGCGTTCCAAGTATTTTGCCACGTTCTGGACTGTC
TTCTCCCTGCACAAGCCAGGGTGTGTCTCGGTAGCTGTGCGTGGTGTGGAGTGTGTGTCTTTCCTCCCTGAAGCT
GTGCGGAGCGAACTGGCGCCTCCGAGGGACGCGGCTCCCGGGGCAGGGCAGCCGTCACCCCTGCCTCCCGCCCCC
TTGGCTGGGACGTCTGGGGTCCTGTGGGGCCCCCACAATGGTCCCAAACAGCTGCCTCTGCCACTGACTGCAGGG
ACACGGGCAGCCTGGCTCCCAGGACACGACTTGTAATGAAAGTTTGGGGACATGTGATTGATTGATTGATTGATT
GTAAATAAAGGATGATGGCCACAACATGAAAACTCCATATTTATTTAGATGCTATTATTACTGTTTGGACTTTTA
TTTTGGCAGGCTTTTTTCCAGACTCTAGGGTTTTCCAATGTGACTAATGACCACACCTGCCTCTCCCGTCGTCTC
TTCTGGGCACCCTCCCACCCGGCTGCATACCCGGGCAGGGCTCCCACAGAGACAAGGAGGGCACAGGTGTCTGCC
CCCTCTTTAAAATCGATCTACACACATCCACGCACATGCGACCCCGAGGAAACGAAACCCACTCTAGAAAACGCG
ACCTTGGCCGCACCTAAAGCAGCCAGCCGTGAGTGCAGACCCCTTGGCCAGCGTGGCGCAGTGGCCCTGAGCAGT
AGTGGCATGTGTGTAGATCAAGTCGGATCTAGTCCAGCTCGGTTCATTAGCGATCCATGTAATCTGACGTCATCT
TGTCTCGAAGTCTCTTTTTTTGGCCCAGGCCTTGAAGAATACACTGTGACTTAAGAAGCCTTACCACGCAGTAAC
TAAAGCTTTAGGATGACTGTATTCGAGGAGTGCCGTGTGTTGCATGCAGCTACCCGTAGGAAGACTTCGCGCATA
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2281/2682
FIGURE 2071B

TCACTAATAAACCTGAAGTCGTGATGA

2282/2682
FIGURE 2072

MAHRKLESVGSGMLDHRVRPGPVPHSQEPESEDMELPLEGYVPEGLELAALRPESPAPEEQECHNHSPDGDSSSD
YVNNTSEEEDYDEGLPEEEEGITYYIRYCPEDDSYLEGMDCNGEEYLAHSAHPVDTDECQEAVEEWTDSAGPHPH
GHEAEGSQDYPDRQLPIPEMSPPSLRPMTRKKMVTMCQQRGLPGLLPRGGQREHRRLPLPPEAGDGDLEDQEEDI
DQIVAEIKMSLSMTSITSASEASPEHGPEPGPEDSVEACPPIKASCSPSRHEARPKSLNLLPEAKHPGDPQRGFK
PKTRTPEERLKWPHEQVCNGLEQPRKQQRSDLNGPVDNNNIPETKKVASFPSFVAVPGPCEPEDLIDGIIFAANY
LGSTQLLSERNPSKNIRMMQAQEAVSRVKRMQKAAKIKKKANSEGDAQTLTEVDLFISTQRIKVLNADTQETMMD
HALRTISYIADIGNIVVLMARRRMPRSASQDCIETTPGAQEGKKQYKMICHVFESEDAQLIAQSIGQAFSVAYQE
FLRANGINPEDLSQKEYSDIINTQEMYNDDLIHFSNSENCKELQLEKHKGEILGVVVVESGWGSILPTVILANMM
NGCPAARSGKLSIGDQIMSINGTSLVGLPLATCQGIIKGLKNQTQVKLNIVSCPPVTTVLIKRPDLKYQLGFSVQ
NGIICSLMRGGIAERGGVRVGHRIIEINGQSVVATAHEKIVQALSNSVGEIHMKTMPAAMFRLLTGQETPLYI

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FIGURE 2073

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GAATTCCATTTTTAAGTTATACAAAACTGATTACCATAAGTGCGGTCGACTGCTTTTATTTTTACGTTGTGTGTGT
TGGAAAAATGCTAAAACATCAGTCTACAATTCTATATATTGTTATTAAAGATTAATCCAACCAGCAACCCAAGGA
CATATAAGCGATTTCCACTATTGCATCAGAGCACTCGGCAGGAAAGGCCTAGCCACGGGGAACATTAGAAGCTAC
AGAAGCATTGCAGAGAAGAGAAGATCCCCCGCGCGTCCGCCGCTGTTCTAAGGAGAGAAGTGGGGGCCCCCCAGG
CTCGCGCGTGGAGCGAAGCAGC**ATG**GGCAGTCGGTGCGCGCTGGCCCTGGCGGTGCTCTCGGCCTTGCTGTGTCA
GGTCTGGAGCTCTGGGGTGTTCGAACTGAAGCTGCAGGAGTTCGTCAACAAGAAGGGGCTGCTGGGGAACCGCAA
CTGCTGCCGCGGGGGCGCGGGGCCACCGCCGTGCGCCTGCCGGACCTTCTTCCGCGTGTGCCTCAAGCACTACCA
GGCCAGCGTGTCCCCCGAGCCGCCCTGCACCTACGGCAGCGCCGTCACCCCCGTGCTGGGCGTCGACTCCTTCAG
TCTGCCCGACGGCGGGGGCGCCGACTCCGCGTTCAGCAACCCCATCCGCTTCCCCTTCGGCTTCACCTGGCCGGG
CACCTTCTCTCTGATTATTGAAGCTCTCCACACAGATTCTCCTGATGACCTCGCAACAGAAAACCCAGAAAGACT
CATCAGCCGCCTGGCCACCCAGAGGCACCTGACGGTGGGCGAGGAGTGGTCCCAGGACCTGCACAGCAGCGGCCG
CACGGACCTCAAGTACTCCTACCGCTTCGTGTGTGACGAACACTACTACGGAGAGGGCTGCTCCGTTTTCTGCCG
TCCCCGGGACGATGCCTTCGGCCACTTCACCTGTGGGGAGCGTGGGGAGAAAGTGTGCAACCCTGGCTGGAAAGG
GCCCTACTGCACAGAGCCGATCTGCCTGCCTGGATGTGATGAGCAGCATGGATTTTGTGACAAACCAGGGGAATG
CAAGTGCAGAGTGGGCTGGCAGGGCCGGTACTGTGACGAGTGTATCCGCTATCCAGGCTGTCTCCATGGCACCTG
CCAGCAGCCCTGGCAGTGCAACTGCCAGGAAGGCTGGGGGGGCCTTTTCTGCAACCAGGACCTGAACTACTGCAC
ACACCATAAGCCCTGCAAGAATGGAGCCACCTGCACCAACACGGGCCAGGGGAGCTACACTTGCTCTTGCCGGCC
TGGGTACACAGGTGCCACCTGCGAGCTGGGGATTGACGAGTGTGACCCCAGCCCTTGTAAGAACGGAGGGAGCTG
CACGGATCTCGAGAACAGCTACTCCTGTACCTGCCCACCCGGCTTCTACGGCAAAATCTGTGAATTGAGTGCCAT
GACCTGTGCGGACGGCCCTTGCTTTAACGGGGGTCGGTGCTCAGACAGCCCCGATGGAGGGTACAGCTGCCGCTG
CCCCGTGGGCTACTCCGGCTTCAACTGTGAGAAGAAAATTGACTACTGCAGCTCTTCACCCTGTTCTAATGGTGC
CAAGTGTGTGGACCTCGGTGATGCCTACCTGTGCCGCTGCCAGGCCGGCTTCTCGGGGAGGCACTGTGACGACAA
CGTGGACGACTGCGCCTCCTCCCCCGTGCGCCAACGGGGGCACCTGCCGGGATGGCGTGAACGACTTCTCCTGCAC
CTGCCCGCCTGGCTACACGGGCAGGAACTGCAGTGCCCCCGTCAGCAGGTGCGAGCACGCACCCTGCCACAATGG
GGCCACCTGCCACGAGAGGGGCCACGGCTATGTGTGCGAGTGTGCCCGAGGCTACGGGGGTCCCAACTGCCAGTT
CCTGCTCCCCGAGCTGCCCCCGGGCCCAGCGGTGGTGGACCTCACTGAGAAGCTAGAGGGCCAGGGCGGGCCATT
CCCCTGGGTGGCCGTGTGCGCCGGGGTCATCCTTGTCCTCATGCTGCTGCTGGGCTGTGCCGCTGTGGTGGTCTG
CGTCCGGCTGAGGCTGCAGAAGCACCGGCCCCCAGCCGACCCCTGCCGGGGGGAGACGGAGACCATGAACAACCT
GGCCAACTGCCAGCGTGAGAAGGACATCTCAGTCAGCATCATCGGGGCCACGCAGATCAAGAACACCAACAAGAA
GGCGGACTTCCACGGGGACCACAGCGCCGACAAGAATGGCTTCAAGGCCCGCTACCCAGCGGTGGACTATAACCT
CGTGCAGGACCTCAAGGGTGACGACACCGCCGTCAGGGACGCGCACAGCAAGCGTGACACCAAGTGCCAGCCCCA
GGGCTCCTCAGGGGAGGAGAAGGGGACCCCGACCACACTCAGGGGTGGAGAAGCATCTGAAAGAAAAAGGCCGGA
CTCGGGCTGTTCAACTTCAAAAGACACCAAGTACCAGTCGGTGTACGTCATATCCGAGGAGAAGGATGAGTGCGT
CATAGCAACTGAGGTG**TAA**AATGGAAGTGAGATGGCAAGACTCCCGTTTCTCTTAAAATAAGTAAAATTCCAAGG
ATATATGCCCCAACGAATGCTGCTGAAGAGGAGGGAGGCCTCGTGGACTGCTGCTGAGAAACCGAGTTCAGACCG
AGCAGGTTCTCCTCCTGAGGTCCTCGACGCCTGCCGACAGCCTGTCGCGGCCCGGCCGCCTGCGGCACTGCCTTC
CGTGACGTCGCCGTTGCACTATGGACAGTTGCTCTTAAGAGAATATATATTTAAATGGGTGAACTGAATTACGCA
TAAGAAGCATGCACTGCCTGAGTGTATATTTTGGATTCTTATGAGCCAGTCTTTTCTTGAATTAGAAACACAAAC
ACTGCCTTTATTGTCCTTTTTGATACGAAGATGTGCTTTTTCTAGATGGAAAAGATGTGTGTTATTTTTTGGATT
TGTAAAAATATTTTTCATGATATCTGTAAAGCTTGAGTATTTTGTGATGTTCGTTTTTTATAATTTAAATTTTGG
TAAATATGTACAAAGGCACTTCGGGTCTATGTGACTATATTTTTTGTATATAAATGTATTTATGGAATATTGTG
CAAATGTTATTTGAGTTTTTTACTGTTTTGTTAATGAAGAAATTCCTTTTTAAAATATTTTTCCAAAATAAATTT
TATGAGGAATTC
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FIGURE 2074

MGSRCALALAVLSALLCQVWSSGVFELKLQEFVNKKGLLGNRNCCRGGAGPPPCACRTFFRVCLKHYQASVSPEP
PCTYGSAVTPVLGVDSFSLPDGGGADSAFSNPIRFPFGFTWPGTFSLIIEALHTDSPDDLATENPERLISRLATQ
RHLTVGEEWSQDLHSSGRTDLKYSYRFVCDEHYYGEGCSVFCRPRDDAFGHFTCGERGEKVCNPGWKGPYCTEPI
CLPGCDEQHGFCDKPGECKCRVGWQGRYCDECIRYPGCLHGTCQQPWQCNCQEGWGGLFCNQDLNYCTHHKPCKN
GATCTNTGQGSYTCSCRPGYTGATCELGIDECDPSPCKNGGSCTDLENSYSCTCPPGFYGKICELSAMTCADGPC
FNGGRCSDSPDGGYSCRCPVGYSGFNCEKKIDYCSSSPCSNGAKCVDLGDAYLCRCQAGFSGRHCDDNVDDCASS
PCANGGTCRDGVNDFSCTCPPGYTGRNCSAPVSRCEHAPCHNGATCHERGHGYVCECARGYGGPNCQFLLPELPP
GPAVVDLTEKLEGQGGPFPWVAVCAGVILVLMLLLGCAAVVVCVRLRLQKHRPPADPCRGETETMNNLANCQREK
DISVSIIGATQIKNTNKKADFHGDHSADKNGFKARYPAVDYNLVQDLKGDDTAVRDAHSKRDTKCQPQGSSGEEK
GTPTTLRGGEASERKRPDSGCSTSKDTKYQSVYVISEEKDECVIATEV

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FIGURE 2075

GTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGGGCCCGCATCCCACCCTCCCGGACCTAAG
AGCCTGGGTCCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCCAGATTCTGGCATCCCAGCCCTCAGTGTCCAAGA
CCCAGGCAGCCCGGGTCCCCGCCTCCCGGATCCAGGCGTCCGGGATCTGCGCCACCAGAACCTAGCCTCCTGCAG
ACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCACGTCCCACCCAGAGAAACTCTCGTATTC
CCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACTCCCAGCTTTCGGACATCTGGCACACGGGGCAGAGCAG
AGAAGCTCAGCGCCCAGCCTGGGGAATTTAAACACTCCAGCTTCCAAGAGCCAAGGAACTTCAGTGCTGTGAACT
CACAACTCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTTACTCAACTCAGTCCTAGGAACGTCGGGTC
CTGGGAAGGAGCCCAAGCGCTCCCAGCCAGCTTCCAGGCGCTAAGAAACCCCGGTGCTTCCCATC**ATG**GTGGCCG
ATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGCGGAGCCCACCGCCAACGGGGGCCTGGCGCTGGCCTCCATCG
AGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCAGGTGCGCCGCTGCCTTCGAGCCAACCTGC
TTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGGACTGGGGGTGTCGGGGGCCGGGGGTGCGC
TGGCGTTGGGCCCGGAGCGCTTGAGCGCCTTCGTCTTCCCGGGCGAGCTGCTGCTGCGTCTGCTGCGGATGATCA
TCTTGCCGCTGGTGGTGTGCAGCTTGATCGGCGGCGCCGCCAGCCTGGACCCCGGCGCGCTCGGCCGTCTGGGCG
CCTGGGCGCTGCTCTTTTTCCTGGTCACCACGCTGCTGGCGTCGGCGCTCGGAGTGGGCTTGGCGCTGGCTCTGC
AGCCGGGCGCCGCCTCCGCCGCCATCAACGCCTCCGTGGGAGCCGCGGGCAGTGCCGAAAATGCCCCCAGCAAGG
AGGTGCTCGATTCGTTCCTGGATCTTGCGAGAAATATCTTCCCTTCCAACCTGGTGTCAGCAGCCTTTCGCTCAT
ACTCTACCACCTATGAAGAGAGGAATATCACCGGAACCAGGGTGAAGGTGCCCGTGGGGCAGGAGGTGGAGGGGA
TGAACATCCTGGGCTTGGTAGTGTTTGCCATCGTCTTTGGTGTGGCGCTGCGGAAGCTGGGGCCTGAAGGGGAGC
TGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCTGGTCTCCTGGATCATGTGGTACGCCCCTG
TGGGCATCATGTTCCTGGTGGCTGGCAAGATCGTGGAGATGGAGGATGTGGGTTTACTCTTTGCCCGCCTTGGCA
AGTACATTCTGTGCTGCCTGCTGGGTCACGCCATCCATGGGCTCCTGGTACTGCCCCTCATCTACTTCCTCTTCA
CCCGCAAAAACCCCTACCGCTTCCTGTGGGGCATCGTGACGCCGCTGGCCACTGCCTTTGGGACCTCTTCCAGTT
CCGCCACGCTGCCGCTGATGATGAAGTGCGTGGAGGAGAATAATGGCGTGGCCAAGCACATCAGCCGTTTCATCC
TGCCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCAGTGCGTGGCCGCAGTGTTCATTGCACAGC
TCAGCCAGCAGTCCTTGGACTTCGTAAAGATCATCACCATCCTGGTCACGGCCACAGCGTCCAGCGTGGGGGCAG
CGGGCATCCCTGCTGGAGGTGTCCTCACTCTGGCCATCATCCTCGAAGCAGTCAACCTCCCGGTCGACCATATCT
CCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCCTGTACCGTCCTCAATGTAGAAGGTGACGCTCTGGGGG
CAGGACTCCTCCAAAATTATGTGGACCGTACGGAGTCGAGAAGCACAGAGCCTGAGTTGATACAAGTGAAGAGTG
AGCTGCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCCCCTCCTCAAACACTATCGGGGGCCCGCAG
GGGATGCCACGGTCGCCTCTGAGAAGGAATCAGTCATG**TAA**ACCCCGGGAGGGACCTTCCCTGCCCTGCTGGGGG
TGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCTAGGGCTCTGGGGGTCTGCCTGCACACTCT
GGGGAGCCAGGGGCCCCAGCACCCTCCAGGACAGGAGATCTGGGATGCCTGGCTGCTGGAGTACATGTGTTCACA
AGGGTTACTCCTCAAAACCCCCAGTTCTCACTCATGTCCCCAACTCAAGGCTAGAAAACAGCAAGATGGAGAAAT
AATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCCTGTCTCAGGGAGCAGGTCACAGGTCACCATGGG
GAATTCTAGCCCCCACTGGGGGGGATGTTACAACACCATGCTGGTTATTTTGGCGGCTGTAGTTGTGGGGGGATGT
GTGTGTGCACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTCTGTGACCTCCTGTCCCCATGGTACGTC
CCACCCTGTCCCCAGATCCCCTATTCCCTCCACAATAACAGAAACACTCCCAGGGACTCTGGGGAGAGGCTGAGG
ACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTAGCAATAAAATTGAGTGTCAACTATTTAAAAAAAAAAA
AAAAAA

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FIGURE 2076

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGELLLRLLRMIILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVGQE
VEGMNILGLVVFAIVFGVALRKLGPEGELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAIHGLLVLPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQQSLDFVKIITILVTATASSVGAAGIPAGGVLTLAIILEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEPELIQVKSELPLDPLPVPTEEGNPLLKHYR
GPAGDATVASEKESVM

FIGURE 2077

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CAGGCCAGGACTCCACAAGGCTGGTCCCCTGCCCTGGAGCAACTTAAACAGGCCCTCTGGCCAGCCTGGAACCCT
GAGATGGCCTCCAGCTCAGGCAGCAGTCCTCGCCCGGCCCCTGATGAGAATGAGTTTCCCTTTGGGTGCCCTCCC
ACCGTCTGCCAGGACCCAAAGGAGCCCAGGGCTCTCTGCTGTGCAGGCTGTCTCTCTGAGAACCCGAGGAATGGC
GAGGATCAGATCTGCCCCAAATGCAGAGGGGAAGACCTCCAGTCTATAAGCCCAGGAAGCCGTCTTCGAACTCAG
GAGAAGGCTCACCCCGAGGTGGCTGAGGCTGGAATTGGGTGCCCCTTTGCAGGTGTCGGCTGCTCCTTCAAGGGA
AGCCCACAGTCTGTGCAAGAGCATGAGGTCACCTCCCAGACCTCCCACCTAAACCTGCTGTTGGGGTTCATGAAA
CAGTGGAAGGCCCGGCTGGGCTGTGGCCTGGAGTCTGGGCCCATGGCCCTGGAGCAGAACCTGTCAGACCTGCAG
CTGCAGGCAGCCGTGGAAGTGGCGGGGGACCTGGAGGTCGATTGCTACCGGGCACCCTGCTCCGAGAGCCAGGAG
GAGCTGGCCCTGCAGCACTTCATGAAGGAGAAGCTTCTGGCTGAGCTGGAGGGGAAGCTGCGTGTGTTTGAGAAC
ATTGTTGCTGTCCTCAACAAGGAGGTGGAGGCCTCCCACCTGGCCCTGGCCACCTCTATCCACCAGAGCCAGCTG
GACCGTGAGCGCATCCTGAGCTTGGAGCAGAGGGTGGTGGAGCTTCAGCAGACCCTGGCCCAGAAAGACCAGGCC
CTGGGCAAGCTGGAGCAGAGCTTGCGCCTCATGGAGGAGGCCTCCTTCGATGGCACTTTCCTGTGGAAGATCACC
AATGTCACCAGGCGGTGCCATGAGTCGGCCTGTGGCAGGACCGTCAGCCTCTTCTCCCCAGCCTTCTACACTGCC
AAGTATGGCTACAAGTTGTGCCTGCGGCTGTACCTGAATGGAGATGGCACTGGAAAGAGAACCCATCTGTCGCTC
TTCATCGTGATCATGAGAGGGGAGTATGATGCGCTGCTGCCGTGGCCTTTCCGGAACAAGGTCACCTTCATGCTG
CTGGACCAGAACAACCGTGAGCACGCCATTGACGCCTTCCGGCCTGACCTAAGCTCAGCGTCCTTCCAGAGGCCC
CAGAGTGAAACCAACGTGGCCAGTGGATGCCCACTCTTCTTCCCCCTCAGCAAACTGCAGTCACCCAAGCACGCC
TACGTGAAGGACGACACAATGTTCCTCAAGTGCATTGTGGAGACCAGCACTTAGGGTGGGCGGGGCTCCTGAGGG
AGCTCCAACTCAGAAGGGAGCTAGCCAGAGGACTGTGATGCCCTGCCCTTGGCACCCAAGACCTCAGGGCACAAA
GATGGGTGAAGGCTGGCATGATCCAAGCAAGACTGAGGGGTCGACTTCGGGCTGGCCATCTGGTTAGGATGGCAG
GACGTGGGCTGGGCCCACAAAGGCAAAGGGTCCAGAAGGAGACAGGCAGAGCTGCTCCCCTCTGCACGGACCATG
CGACACTGGGAGGCCAGTGAGCCACTCCGGCCCCGAATGTTGAGGTGGACTCTCACCAAATGAGAAGAAAATGGA
ACCAGGCTTGGAACCGTAGGACCCAAGCAGAGAAGCTCTCGGGCTAGGAAGATCTCTGCAGGGCCGCCAGGGAGA
CCTGGACACAGGCCTGCTCTCTTTTTCTCCAGGGTCAGAAACAGGACCGGGTGGAAGGGATGGGGTGCCAGTTTG
AATGCAGTCTGTCCAGGCTCGTCATTGGAGGTGAACAAGCAAACCCAGAGGGCTCCACTAGGACTTCAAATTGGG
GGTTGGATTTGAAGACTTTTAAGTTTCCTTCCAGCCCAGAAAGTCTCTCATTCTAGGCCTCCTGGCCCAGGTGAG
TCCTAGAGCTACAGGGGTTCTGGAAACATTCAGGAGCTTCCTGTCCTCCCAGCTCCTCACTCACCTTCAGTAACC
CCCACTGGACTGACCTGGTCCACAGGGCACCTGCCACCCTGGGCCTGGCAGCTCAGCTTCCCCAACACGCAGGAG
CACACCCAGCCCCCACATCCTGTGCCTCCATCAGCTAAACACCACGTCACTTCATGCAGGTGAAACCCAGTCACT
GTGAGCTCCCAGGTGCAGCCAGAGGCACCTCAAGAAGAAGAGGGGCATAAACTTTCCTCTTCCTGCCTAGAGGCC
CCACCTTTGGTGCTTTCCAGAATCCCGTAACACCTGATTAACTGAGGCATCCACTTCTTTCAGCAGACTGATCAG
GACCTCCAAGCCACTGAGCAATGTATAACCCCAAAGAAATAATTTTTAGAATCTCTTTCGAAGTTTTCCTAAAAA
AAAAAAAAAAAA
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FIGURE 2078

MASSSGSSPRPAPDENEFPFGCPPTVCQDPKEPRALCCAGCLSENPRNGEDQICPKCRGEDLQSISPGSRLRTQE
KAHPEVAEAGIGCPFAGVGCSFKGSPQSVQEHEVTSQTSHLNLLLGFMKQWKARLGCGLESGPMALEQNLSDLQL
QAAVEVAGDLEVDCYRAPCSESQEELALQHFMKEKLLAELEGKLRVFENIVAVLNKEVEASHLALATSIHQSQLD
RERILSLEQRVVELQQTLAQKDQALGKLEQSLRLMEEASFDGTFLWKITNVTRRCHESACGRTVSLFSPAFYTAK
YGYKLCLRLYLNGDGTGKRTHLSLFIVIMRGEYDALLPWPFRNKVTFMLLDQNNREHAIDAFRPDLSSASFQRPQ
SETNVASGCPLFFPLSKLQSPKHAYVKDDTMFLKCIVETST

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FIGURE 2079

CCTGGCCCGGTCGCGGTCGCGGCTCTTTCCAGCTCCTGGCAGCCGGGCACCCGAAGGAACGGGTCGTGCAACGAC
GCAGCTGGACCTGGCCCAGCC**ATG**GACCGAAAAGTGGCCCGAGAATTCCGGCATAAGGTGGATTTTCTGATTGAA
AATGATGCAGAGAAGGACTATCTCTATGATGTGCTGCGAATGTACCACCAGACCATGGACGTGGCCGTGCTCGTG
GGAGACCTGAAGCTGGTCATCAATGAACCCAGCCGTCTGCCTCTGTTTGATGCCATTCGGCCGCTGATCCCACTG
AAGCACCAGGTGGAATATGATCAGCTGACCCCCCGGCGCTCCAGGAAGCTGAAGGAGGTGCGTCTGGACCGTCTG
CACCCCGAAGGCCTCGGCCTGAGTGTGCGTGGTGGCCTGGAGTTTGGCTGTGGGCTCTTCATCTCCCACCTCATC
AAAGGCGGTCAGGCAGACAGCGTCGGGCTCCAGGTAGGGGACGAGATCGTCCGGATCAATGGATATTCCATCTCC
TCCTGTACCCATGAGGAGGTCATCAACCTCATTCGAACCAAGAAAACTGTGTCCATCAAAGTGAGACACATCGGC
CTGATCCCCGTGAAAAGCTCTCCTGATGAGCCCCTCACTTGGCAGTATGTGGATCAGTTTGTGTCGGAATCTGGG
GGCGTGCGAGGCAGCCTGGGCTCCCCTGGAAATCGGGAAAACAAGGAGAAGAAGGTCTTCATCAGCCTGGTAGGC
TCCCGAGGCCTTGGCTGCAGCATTTCCAGCGGCCCCATCCAGAAGCCTGGCATCTTTATCAGCCATGTGAAACCT
GGCTCCCTGTCTGCTGAGGTGGGATTGGAGATAGGGGACCAGATTGTCGAAGTCAATGGCGTCGACTTCTCTAAC
CTGGATCACAAGGAGGCTGTAAATGTGCTGAAAAATAGCCGCAGCCTGACCATCTCCATTGTAGCTGCAGCTGGC
CGGGAGCTGTTCATGACAGACCGGGAGCGGCTGGCAGAGGCGCGGCAGCGTGAGCTGCAGCGGCAGGAGCTTCTC
ATGCAGAAGCGGCTGGCGATGGAGTCCAACAAGATCCTCCAGGAGCAGCAGGAGATGGAGCGGCAAAGGAGAAAA
GAAATTGCCCAGAAGGCAGCAGAGGAAAATGAGAGATACCGGAAGGAGATGGAACAGATTGTAGAGGAGGAAGAG
AAGTTTAAGAAGCAATGGGAAGAAGACTGGGGCTCAAAGGAACAGCTACTCTTGCCTAAAACCATCACTGCTGAG
GTACACCCAGTACCCCTTCGCAAGCCAAAGTATGATCAGGGAGTGGAACCTGAGCTCGAGCCCGCAGATGACCTG
GATGGAGGCACGGAGGAGCAGGGAGAGCAGGATTTCCGGAAATATGAGGAAGGCTTTGACCCCTACTCTATGTTC
ACCCCAGAGCAGATCATGGGGAAGGATGTCCGGCTCCTACGCATCAAGAAGGAGGGATCCTTAGACCTGGCCCTG
GAAGGCGGTGTGGACTCCCCCATTGGGAAGGTGGTCGTTTCTGCTGTGTATGAGCGGGGAGCTGCTGAGCGGCAT
GGTGGCATTGTGAAAGGGGACGAGATCATGGCAATCAACGGCAAGATTGTGACAGACTACACCCTGGCTGAGGCT
GACGCTGCCCTGCAGAAGGCCTGGAATCAGGGCGGGGACTGGATCGACCTTGTGGTTGCCGTCTGCCCCCCAAAG
GAGTATGACGATGAGCTGACCTTCTTGCTGAAGTCCAAAAGGGGAAACCAAATTCACGCGTTAGGAAACAGTGAG
CTCCGGCCCCACCTCGTGAACACAAAGCCTCGGACCAGCCTTGAGAGAGGCCACATGACACACACCAGATGGCAT
CCTTGGGACCTGAATCTATCACCCAGGAATCTCAAACTCCCTTTGGCCCTGAACCAGGGCCAGATAAGGAACAGC
TCGGGCCACTTTTTTGAAGGCCAATGTGGAGGAAAGGGAGCAGCCAGCCGTTTGGGAGAAGATCTCAAGGATCCA
GACTCTCATTCCTTTCCTCTGGCCCAG**TGA**ATTTGGTCTCTCCCAGCTTTGGGGGACTCCTTCCTTGAACCCTAA
TAAGACCCCACTGGAGTCTCTCTCTCTCCATCCCTCTCCTCTGCCCTCTGCTCTAATTGCTGCCAGGATTGTCAC
TCCAAACCTTACTCTGAGCTCATTAATAAAATAAACAGATTTATTTTCCAGCTTAAAAAAA

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FIGURE 2080

MDRKVAREFRHKVDFLIENDAEKDYLYDVLRMYHQTMDVAVLVGDLKLVINEPSRLPLFDAIRPLIPLKHQVEYD
QLTPRRSRKLKEVRLDRLHPEGLGLSVRGGLEFGCGLFISHLIKGGQADSVGLQVGDEIVRINGYSISSCTHEEV
INLIRTKKTVSIKVRHIGLIPVKSSPDEPLTWQYVDQFVSESGGVRGSLGSPGNRENKEKKVFISLVGSRGLGCS
ISSGPIQKPGIFISHVKPGSLSAEVGLEIGDQIVEVNGVDFSNLDHKEAVNVLKNSRSLTISIVAAAGRELFMTD
RERLAEARQRELQRQELLMQKRLAMESNKILQEQQEMERQRRKEIAQKAAEENERYRKEMEQIVEEEEKFKKQWE
EDWGSKEQLLLPKTITAEVHPVPLRKPKYDQGVEPELEPADDLDGGTEEQGEQDFRKYEEGFDPYSMFTPEQIMG
KDVRLLRIKKEGSLDLALEGGVDSPIGKVVVSAVYERGAAERHGGIVKGDEIMAINGKIVTDYTLAEADAALQKA
WNQGGDWIDLVVAVCPPKEYDDELTFLLKSKRGNQIHALGNSELRPHLVNTKPRTSLERGHMTHTRWHPWDLNLS
PRNLKLPLALNQGQIRNSSGHFFEGQCGGKGAASRLGEDLKDPDSHSFPLAQ

FIGURE 2081

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CAGAGGGCTGCTGGCTGGCTAAGTCCCTCCCGCTCCCGGCTCTCGCCTCACTAGGAGCGGCTCTCGGTGCAGCGG
GACAGGGCGAAGCGGCCTGCGCCCACGGAGCGCGCGACACTGCCCGGAAGGGACCGCCACCCTTGCCCCCTCAGC
TGCCCACTCGTGATTTCCAGCGGCCTCCGCGCGCGCACGATGCCCTCGGCCACCAGCCACAGCGGGAGCGGCAGC
AAGTCGTCCGGACCGCCACCGCCGTCGGGTTCCTCCGGGAGTGAGGCGGCCGCGGGAGCCGGGGCCGCCGCGCCG
GCTTCTCAGCACCCCGCAACCGGCACCGGCGCTGTCCAGACCGAGGCC**ATG**AAGCAGATTCTCGGGGTGATCGAC
AAGAAACTTCGGAACCTGGAGAAGAAAAAGGGTAAGCTTGATGATTACCAGGAACGAATGAACAAAGGGGAAAGG
CTTAATCAAGATCAGCTGGATGCCGTTTCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAAGAATTA
CAGAGGAGTTTCATGGCACTAAGTCAAGATATTCAGAAAACAATAAAGAAGACAGCACGTCGGGAGCAGCTTATG
AGAGAAGAAGCTGAACAGAAACGTTTAAAAACTGTACTTGAGCTACAGTATGTTTTGGACAAATTGGGAGATGAT
GAAGTGCGGACTGACCTGAAACAAGGTTTGAATGGAGTGCCAATATTGTCCGAAGAGGAGTTGTCATTGTTGGAT
GAATTCTATAAGCTAGTAGACCCTGAACGGGACATGAGCTTGAGGTTGAATGAACAGTATGAACATGCCTCCATT
CACCTGTGGGACCTGCTGGAAGGGAAGGAAAAACCTGTATGTGGAACCACCTATAAAGTTCTAAAGGAAATTGTT
GAGCGTGTTTTTCAGTCAAACTACTTTGACAGCACCCACAACCACCAGAATGGGCTGTGTGAGGAAGAAGAGGCA
GCCTCAGCACCTGCAGTTGAAGACCAGGTACCTGAAGCTGAACCTGAGCCAGCAGAAGAGTACACTGAGCAAAGT
GAAGTTGAATCAACAGAGTATGTAAATAGACAGTTCATGGCAGAAACACAGTTCACCAGTGGTGAAAAGGAGCAG
GTAGATGAGTGGACAGTTGAAACGGTTGAGGTGGTAAATTCACTCCAGCAGCAACCTCAGGCTGCATCCCCTTCA
GTACCAGAGCCCCACTCTTTGACTCCAGTGGCTCAGGCAGATCCCCTTGTGAGAAGACAGCGAGTACAAGACCTT
ATGGCACAAATGCAGGGTCCCTATAATTTCATACAGGATTCAATGCTGGATTTTGAAAATCAGACACTTGATCCT
GCCATTGTATCTGCACAGCCTATGAATCCAACACAAAACATGGACATGCCCCAGCTGGTTTGCCCTCCAGTTCAT
TCTGAATCTAGACTTGCTCAGCCTAATCAAGTTCCTGTACAACCAGAAGCGACACAGGTTCCTTTGGTATCATCC
ACAAGTGAGGGGTACACAGCATCTCAACCCTTGTACCAGCCTTCTCATGCTACAGAGCAACGACCACAGAAGGAA
CCAATTGATCAGATTCAGGCAACAATCTCTTTAAATACAGACCAGACTACAGCATCATCATCCCTTCCTGCTGCG
TCTCAGCCTCAAGTATTTCAGGCTGGGACAAGCAAACCTTTACATAGCAGTGGAATCAATGTAAATGCAGCTCCA
TTCCAATCCATGCAAACGGTGTTCAATATGAATGCCCCAGTTCCTCCTGTTAATGAACCAGAAACTTTAAAACAG
CAAAATCAGTACCAGGCCAGTTATAACCAGAGCTTTTCTAGTCAGCCTCACCAAGTAGAACAAACAGAGCTTCAG
CAAGAACAGCTTCAAACAGTGGTTGGCACTTACCATGGTTCCCCAGACCAGTCCCATCAAGTGACTGGTAACCAC
CAGCAGCCTCCTCAGCAGAACACTGGATTTCCACGTAGCAATCAGCCCTATTACAATAGTCGTGGTGTGTCTCGT
GGAGGCTCCCGTGGTGCTAGAGGCTTGATGAATGGATACCGGGGCCCTGCCAATGGATTCAGAGGAGGATATGAT
GGTTACCGCCCTTCATTCTCTAACACTCCAAACAGTGGTTATACACAGTCTCAGTTCAGTGCTCCCCGGGATTAC
TCTGGCTATCAACGGGATGGATATCAGCAGAATTTCAAGCGAGGCTCTGGGCAGAGTGGACCACGGGGAGCCCCA
CGAGGTCGTGGAGGGCCCCCAAGACCCAACAGAGGGATGCCGCAAATGAACACTCAGCAAGTGAAT**TAA**TCTGAT
TCACAGGATTATGTTTAATCGCCAAAAACACACTGGCCAGTGTACCATAATATGTTACCAGAAGAGTTATTATCT
ATTTGTTCTCCCTTTCAGGAAACTTATTGTAAAGGGACTGTTTTCATCCCATAAAGACAGGACTACAATTGTCAG
CTTTCTATTACCTGGATATGGAAGGAAACTATTTTTACTCTGCATGTTCTGTCCTAAGCGTCATCTTGAGCCTTG
CACATGATACTCAGATTCCTCACCCTTGCTTAGGAGTAAAACAATATACTTTACAGGGTGATAATAATCTCCATA
GTTATTTGAAGTGGCTTGAAAAAGGCAAGATTGACTTTTATGACATTGGATAAAATCTACAAATCAGCCCTCGAG
TTATTCAATGATAACTGACAAACTAAATTATTTCCCTAGAAAGGAAGATGAAAGGAGTGGAGTGTGGTTTGGCAG
AACAACTGCATTTCACAGCTTTTCCAGTTAAATTGGAGCACTGAACGTTCAGATGCATACCAAATTATGCATGGG
TCCTAATCACACATATAAGGCTGGCTACCAGCTTTGACACAGCACTGTTCATCTGGCCAAACAACTGTGGTTAAA
AACACATGTAAAATGCTTTTTAACAGCTGATACTGTATAAGACAAAGCCAAGATGCAAAATTAGGCTTTGATTGG
CACTTTTTGAAAAAATATGCAACAAATATGGGATGTAATCCGGATGGCCGCTTCTGTACTTAATGTGAAATATTTA
GATACCTTTTTGAACACTTAACAGTTTCTTTGAGACAATGACTTTTGTAAGGATTGGTACTATCTATCATTCCTT
ATGACATGTACATTGTCTGTCACTAATCCTTGGATTTTGCTGTATTGTCACCTAAATTGGTACAGGTACTGATGA
AAATCTCTAGTGGATAATCATAACACTCTCGGTCACATGTTTTTCCTTCAGCTTGAAAGCTTTTTTTAAAAGGA
AAAGATACCAAATGCCTGCTGCTACCACCCTTTTCAATTGCTATCTTTTGAAAGGCACCAGTATGTGTTTTAGAT
TGATTTCCCTGTTTCAGGGAAATCACGGACAGTAGTTTCAGTTCTGATGGTATAAGCAAAACAAATAAAACGTTT
ATAAAAGTTAAAAAAAAAAAAAAAAAAA
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FIGURE 2082

MKQILGVIDKKLRNLEKKKGKLDDYQERMNKGERLNQDQLDAVSKYQEVTNNLEFAKELQRSFMALSQDIQKTIK
KTARREQLMREEAEQKRLKTVLELQYVLDKLGDDEVRTDLKQGLNGVPILSEEELSLLDEFYKLVDPERDMSLRL
NEQYEHASIHLWDLLEGKEKPVCGTTYKVLKEIVERVFQSNYFDSTHNHQNGLCEEEEAASAPAVEDQVPEAEPE
PAEEYTEQSEVESTEYVNRQFMAETQFTSGEKEQVDEWTVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQADPL
VRRQRVQDLMAQMQGPYNFIQDSMLDFENQTLDPAIVSAQPMNPTQNMDMPQLVCPPVHSESRLAQPNQVPVQPE
ATQVPLVSSTSEGYTASQPLYQPSHATEQRPQKEPIDQIQATISLNTDQTTASSSLPAASQPQVFQAGTSKPLHS
SGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQQNQYQASYNQSFSSQPHQVEQTELQQEQLQTVVGTYHGSPD
QSHQVTGNHQQPPQQNTGFPRSNQPYYNSRGVSRGGSRGARGLMNGYRGPANGFRGGYDGYRPSFSNTPNSGYTQ
SQFSAPRDYSGYQRDGYQQNFKRGSGQSGPRGAPRGRGGPPRPNRGMPQMNTQQVN

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FIGURE 2083

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CAGCGGCGGCCCAGGAGGCAGCCGGTGAGCGCCTGCGAGCAGAGTGGCGGGGGCCGCTGACAGGTCCCGCGCAGC
CCAGCCCAGCCCAGCCACGCGGCTCACAGGTGGGGTCCAAGAGCAGTTTGGAGCAACCCGGCGCTACGGAGAGGG
GTGGACGGCTCTGCACGGGCCTCCTGTCTCCCGCTCGGGCAGAGGGACTCGGGGGGGACCTCGCTCCTTGGCCGAG
AGAACCTGAACTCGGGCGGAGAGAACGCGCCCAGGCGGGCAAGGGGACCAGAGAAAGCCGGGGCTGGAAGTCACT
GTCGCTCGCCACTGTCTGGAGCGCACGGAGCGCAGAGGCCCGGCAGCCGCGCGTGCCCTCCCGGGGACCGAGCCA
GTGATGCAGGATCGCTGAGCGGAGATCCGCGCCGAGAAGTCTCTCGGGGCCGGGGCTGAGACGCACGCCTTCGAC
ACCGCTGCCAAGACCCCGATTCCGGCGACTCTTGCGGGGAACCGAGGGGCCAAGGCTGCCCCAAGCTCAGGACTT
GGGCGAGTCTAAGACGATGGTTTCTTAAGCACGGACCCGCGTTCCCCTTCCCGCCCCCTCGACTGGAGGCAGGGA
TCCTGCGCGGGGCCCCCGGGATTCCGTTTCCCCGCGGAGCCCCGGCCGCTGCCTCCCGGGACAGTTCGCACGGCC
ACAGGGGCGCACGGCGATGTGGCCTCCGTCCAGCGCGCTGGCCCGCCGGGGGGATGCTCTGGCACCTGTCGGGGT
CCAGGCCTAGCATGGCCGGCGCGTTGCCCGACGTCGCCTCCGGCTAGG**ATG**GCCCCTCCGGGCCCGGCCAGTGCC
CTCTCCACCTCGGCCGAGCCGCTGTCCCGCAGCATCTTCCGGAAGTTCTTGCTGATGCTCTGCTCCCTGCTCACG
TCCCTTTACGTCTTCTACTGCCTGGCCGAGCGCTGCCAGACCCTGTCCGGCCCCGTCGTGGGCTGTCCGGCGGC
GGCGAGGAGGCGGGGGCCCCTGGTGGCGGCGTCCTGGCCGGAGGCCCGAGGGAGCTGGCGGTGTGGCCGGCGGCG
GCACAGAGAAAGCGCCTCCTGCAACTGCCGCAGTGGCGGAGGCGCCGGCCGCCCGCGCCCCGCGACGACGGCGAG
GAGGCGGCCTGGGAAGAAGAGTCCCCTGGCCTGTCAGGGGGTCCGGGCGGCTCCGGGGCCGGAAGCACCGTGGCC
GAGGCCCCGCCGGGGACCCTGGCGCTGCTCCTGGACGAAGGCAGCAAGCAGCTGCCGCAGGCCATCATCATCGGA
GTGAAGAAGGGCGGCACGCGGGCGCTGCTGGAGTTCCTGCGCGTGCACCCCGACGTGCGCGCCGTGGGCGCCGAG
CCCCACTTCTTCGACCGCAGCTACGACAAGGGCCTCGCCTGGTACCGGGACCTGATGCCCAGAACCCTGGACGGG
CAGATCACCATGGAGAAGACGCCCAGTTACTTCGTCACGCGGGAGGCCCCCGCGCGCATCTCGGCCATGTCCAAG
GACACCAAGCTCATCGTGGTGGTGCGGGACCCGGTGACCAGGGCCATCTCGGACTACACGCAGACGCTGTCCAAG
CGGCCCGACATCCCCACCTTCGAGAGCTTGACGTTCAAAAACAGGACAGCGGGCCTCATCGACACGTCGTGGAGC
GCCATCCAGATCGGCATCTACGCCAAGCACCTGGAGCACTGGCTGCGCCACTTCCCCATCCGCCAGATGCTCTTC
GTGAGCGGCGAGCGGCTCATCAGCGACCCGGCCGGGGAGCTGGGCCGCGTGCAAGACTTCCTGGGCCTCAAGAGG
ATCATCACGGACAAGCACTTCTACTTCAACAAGACCAAGGGCTTCCCCTGCCTGAAGAAGGCGGAGGGCAGCAGC
CGGCCCCATTGCCTGGGCAAGACCAAGGGCAGGACCCATCCTGAGATCGACCGCGAGGTGGTGCGCAGGCTGCGC
GAGTTCTACCGGCCTTTCAACCTCAAGTTCTACCAGATGACCGGGCACGACTTTGGCTGGGATGGA**TAA**CCATAT
AATTTAAAAAGAAAAAAAAAATCAAAATATAATATATTTTTTTACCAATCGGTAGAGAAGAGACAGTTTAATATT
TGTGCTGAAAATATGTTTCAGTATTTTTTTCAATGAATGTTAAGAGATTGTTCTCACTCCCGCCCCATCTTAATG
TATAACCAACACCAAACACGTGGATCAACAGAAAAGGAAAATTTCACTCGTCTAAACACTTTCAATTTTCAGTTT
TTATTTTATGTTCTATATACCCAGTCATAAAGTATAAGCATCAGTTGTCATTAAAAGTTTTCAGAAAATCTTGAG
GTTAAACATCTCTCTCTCTTTTTTTAAAATACAAGGCCCTGATAAAATTGATATCTATCCTTATATTTTTCTCCC
TTTTTCCCGTGCCACTTTTTCTTAAATTATTTCCCAGTTAGTATTATCATATGTTTGTACCCGTCACAGTTTTCA
TAGTGCTTTCAAATACACCTTTTTGATCATTAAAATAAAAAAATAAATCTTGGAAAAAAAAAAAAAAAAAAA
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FIGURE 2084

MAPPGPASALSTSAEPLSRSIFRKFLLMLCSLLTSLYVFYCLAERCQTLSGPVVGLSGGGEEAGAPGGGVLAGGP
RELAVWPAAAQRKRLLQLPQWRRRRPPAPRDDGEEAAWEEESPGLSGGPGGSGAGSTVAEAPPGTLALLLDEGSK
QLPQAIIIGVKKGGTRALLEFLRVHPDVRAVGAEPHFFDRSYDKGLAWYRDLMPRTLDGQITMEKTPSYFVTREA
PARISAMSKDTKLIVVVRDPVTRAISDYTQTLSKRPDIPTFESLTFKNRTAGLIDTSWSAIQIGIYAKHLEHWLR
HFPIRQMLFVSGERLISDPAGELGRVQDFLGLKRIITDKHFYFNKTKGFPCLKKAEGSSRPHCLGKTKGRTHPEI
DREVVRRLREFYRPFNLKFYQMTGHDFGWDG

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FIGURE 2085

CTAAAGCTGGGTTGGTAGCTCCTACCTACTGTGTGGCAAGAAGG**ATG**GGTCATGAACAGAACCAAGGAGCTGCG
CTGCTACAGATGTTACCACTTCTGTGGCTGCTACCCCACTCCTGGGCCGTCCCTGAAGCTCCTACTCCAATGTGG
CCAGATGACCTGCAAAACCACACATTCCTGCACACAGTGTACTGCCAGGATGGGAGTCCCAGTGTGGGACTCTCT
GAGGCCTACGACGAGGACCAGCTTTTCTTCTTCGACTTTTCCCAGAACACTCGGGTGCCTCGCCTGCCCGAATTT
GCTGACTGGGCTCAGGAACAGGGAGATGCTCCTGCCATTTTATTTGACAAAGAGTTCTGCGAGTGGATGATCCAG
CAAATAGGGCCAAAACTTGATGGGAAAATCCCGGTGTCCAGAGGGTTTCCTATCGCTGAAGTGTTCACGCTGAAG
CCCCTGGAGTTTGGCAAGCCCAACACTTTGGTCTGTTTTGTCAGTAATCTCTTCCCACCCATGCTGACAGTGAAC
TGGCAGCATCATTCCGTCCCTGTGGAAGGATTTGGGCCTACTTTTGTCTCAGCTGTCGATGGACTCAGCTTCCAG
GCCTTTTCTTACTTAAACTTCACACCAGAACCTTCTGACATTTTCTCCTGCATTGTGACTCACGAAATTGACCGC
TACACAGCAATTGCCTATTGGGTACCCCGGAACGCACTGCCCTCAGATCTGCTGGAGAATGTGCTGTGTGGCGTG
GCCTTTGGCCTGGGTGTGCTGGGCATCATCGTGGGCATTGTTCTCATCATCTACTTCCGGAAGCCTTGCTCAGGT
GAC**TGA**TTCTTCCAGACCAGAGTTTGATGCCAGCAGCTTCGGCCATCCAAACAGAGGATGCTCAGATTTCTCACA
TCCTGCCCAGGATCTCCTCTTAGGGTAGAAGAAGTCTCTGGGACATCCCTGGGGTGTGTGTGTAGATTTCCCACC
TGGGGACTCTGCTGTCCCTGGGCTTGCATCCCAGGGATCCCAGAGTGGCCTGCCTATCACAACCACATCCCTTCC
CCCCACAAGGCAATAAATCTCATTTCTTTAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2086

MGHEQNQGAALLQMLPLLWLLPHSWAVPEAPTPMWPDDLQNHTFLHTVYCQDGSPSVGLSEAYDEDQLFFFDFSQ
NTRVPRLPEFADWAQEQGDAPAILFDKEFCEWMIQQIGPKLDGKIPVSRGFPIAEVFTLKPLEFGKPNTLVCFVS
NLFPPMLTVNWQHHSVPVEGFGPTFVSAVDGLSFQAFSYLNFTPEPSDIFSCIVTHEIDRYTAIAYWVPRNALPS
DLLENVLCGVAFGLGVLGIIVGIVLIIYFRKPCSGD

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FIGURE 2087

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TTGGGAGGAGCAGTCTCTCCGCTCGTCTCCCGGAGCTTTCTCCATTGTCTCTGCCTTTACAACAGAGGGAGACGA
TGGACTGAGCTGATCCGCACCATGGAGTCTCGGGTCTTACTGAGAACATTCTGTTTGATCTTCGGTCTCGGAGCA
GTTTGGGGGGCTTGGTGTGGACCCTTCCCTACAGATTGACGTCTTAACAGAGTTAGAACTTGGGGAGTCCACGACC
GGAGTGCGTCAGGTCCCGGGGCTGCATAATGGGACGAAAGCCTTTCTCTTTCAAGATACTCCCAGAAGCATAAAA
GCATCCACTGCTACAGCTGAACAGTTTTTTCAGAAGCTGAGAAATAAACATGAATTTACTATTTTGGTGACCCTA
AAACAGACCCACTTAAATTCAGGAGTTATTCTCTCAATTCACCACTTGGATCACAGGTACCTGGAACTGGAAAGT
AGTGGCCATCGGAATGAAGTCAGACTGCATTACCGCTCAGGCAGTCACCGCCCTCACACAGAAGTGTTTCCTTAC
ATTTTGGCTGATGACAAGTGGCACAAGCTCTCCTTAGCCATCAGTGCTTCCCATTTGATTTTACACATTGACTGC
AATAAAATTTATGAAAGGGTAGTAGAAAAGCCCTCCACAGACTTGCCTCTAGGCACAACATTTTGGCTAGGACAG
AGAAATAATGCGCATGGATATTTTAAGGGTATAATGCAAGATGTCCAATTACTTGTCATGCCCCAGGGATTTATT
GCTCAGTGCCCAGATCTTAATCGCACCTGTCCAACTTGCAATGACTTCCATGGACTTGTGCAGAAAATCATGGAG
CTACAGGATATTTTAGCCAAAACATCAGCCAAGCTGTCTCGAGCTGAACAGCGAATGAATAGATTGGATCAGTGC
TATTGTGAAAGGACTTGCACCATGAAGGGAACCACCTACCGAGAATTTGAGTCCTGGATAGACGGCTGTAAGAAC
TGCACATGCCTGAATGGAACCATCCAGTGTGAAACTCTAATCTGCCCAAATCCTGACTGCCCACTTAAGTCGGCT
CTTGCGTATGTGGATGGCAAATGCTGTAAGGAATGCAAATCGATATGCCAATTTCAAGGACGAACCTACTTTGAA
GGAGAAAGAAATACAGTCTATTCCTCTTCTGGAGTATGTGTTCTCTATGAGTGCAAGGACCAGACCATGAAACTT
GTTGAGAGTTCAGGCTGTCCAGCTTTGGATTGTCCAGAGTCTCATCAGATAACCTTGTCTCACAGCTGTTGCAAA
GTTTGTAAAGGTTATGACTTTTGTTCTGAAAGGCATAACTGCATGGAGAATTCCATCTGCAGAAATCTGAATGAC
AGGGCTGTTTGTAGCTGTCGAGATGGTTTTAGGGCTCTTCGAGAGGATAATGCCTACTGTGAAGACATCGATGAG
TGTGCTGAAGGGCGCCATTACTGTCGTGAAAATACAATGTGTGTCAACACCCCGGGTTCTTTTATGTGCATCTGC
AAAACTGGATACATCAGAATTGATGATTATTCATGTACAGAACATGATGAGTGTATCACAAATCAGCACAACTGT
GATGAAAATGCTTTATGCTTCAACACTGTTGGAGGACACAACTGTGTTTGCAAGCCGGGCTATACAGGGAATGGA
ACGACATGCAAAGCATTTTGCAAAGATGGCTGTAGGAATGGAGGAGCCTGTATTGCCGCTAATGTGTGTGCCTGC
CCACAAGGCTTCACTGGACCCAGCTGTGAAACGGACATTGATGAATGCTCTGATGGTTTTGTTCAATGTGACAGT
CGTGCTAATTGCATTAACCTGCCTGGATGGTACCACTGTGAGTGCAGAGATGGCTACCATGACAATGGGATGTTT
TCACCAAGTGGAGAATCGTGTGAAGATATTGATGAGTGTGGGACCGGGAGGCACAGCTGTGCCAATGATACCATT
TGCTTCAATTTGGATGGCGGATATGATTGTCGATGTCCTCATGGAAAGAATTGCACAGGGGACTGCATCCATGAT
GGAAAAGTTAAGCACAATGGTCAGATTTGGGTGTTGGAAAATGACAGGTGCTCTGTGTGCTCATGTCAGAATGGA
TTCGTTATGTGTCGACGGATGGTCTCTGTGACTGTGAGAATCCCACAGTTGATCTTTTTTGCTGCCCTGAATGTGAC
CCAAGGCTTAGTAGTCAGTGCCTCCATCAAAATGGGGAAACTTTGTATAACAGTGGTGACACCTGGGTCCAGAAT
TGTCAACAGTGCCGCTGCTTGCAAGGGGAAGTTGATTGTTGGCCCCTGCCTTGCCCAGATGTGGAGTGTGAATTC
AGCATTCTCCCAGAGAATGAGTGCTGCCCGCGCTGTGTCACAGACCCTTGCCAGGCTGACACCATCCGCAATGAC
ATCACCAAGACTTGCCTGGACGAAATGAATGTGGTTCGCTTCACCGGGTCCTCTTGGATCAAACATGGCACTGAG
TGTACTCTCTGCCAGTGCAAGAATGGCCACATCTGTTGCTCAGTGGATCCACAGTGCCTTCAGGAACTGTGAAGT
TAACTGTCTCATGGGAGATTTCTGTTAAAAGAATGTTCTTTCATTAAAAGACCAAAAAGAAGTTAAAACTTAAAT
TGGGTGATTTGTGGGCAGCTAAATGCAGCTTTGTTAATAGCTGAGTGAACTTTCAATTATGAAATTTGTGGAGCT
TGACAAAATCACAAAAGGAAAATTACTGGGCAAAATTAGACCTCAAGTCTGCCTCTACTGTGTCTCACATCACC
ATGTAGAAGAATGGGCGTACAGTATATACCGTGACATCCTGAACCCTGGATAGAAAGCCTGAGCCCATTGGATCT
GTGAAAGCCTCTAGCTTCACTGGTGCAGAAAATTTTCCTCTAGATCAGAATCTTCAGAATCAGTTAGGTTCCTCA
CTGCAAGAAATAAAATGTCAGGCAGTGAATGAATTATATTTTCAGAAGTAAAGCAAAGAAGCTATAACATGTTAT
GTACAGTACACTCTGAAAAGAAATCTGAAACAAGTTATTGTAATGATAAAAATAATGCACAGGCATGGTTACTTA
ATATTTTCTAACAGGAAAAGTCATCCCTATTTCCTTGTTTTACTGCACTTAATATTATTTGGTTGAATTTGTTCA
GTATAAGCTCGTTCTTGTGCAAAATTAAATAAATATTTCTCTTACCTT
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FIGURE 2088

MESRVLLRTFCLIFGLGAVWGLGVDPSLQIDVLTELELGESTTGVRQVPGLHNGTKAFLFQDTPRSIKASTATAE
QFFQKLRNKHEFTILVTLKQTHLNSGVILSIHHLDHRYLELESSGHRNEVRLHYRSGSHRPHTEVFPYILADDKW
HKLSLAISASHLILHIDCNKIYERVVEKPSTDLPLGTTFWLGQRNNAHGYFKGIMQDVQLLVMPQGFIAQCPDLN
RTCPTCNDFHGLVQKIMELQDILAKTSAKLSRAEQRMNRLDQCYCERTCTMKGTTYREFESWIDGCKNCTCLNGT
IQCETLICPNPDCPLKSALAYVDGKCCKECKSICQFQGRTYFEGERNTVYSSSGVCVLYECKDQTMKLVESSGCP
ALDCPESHQITLSHSCCKVCKGYDFCSERHNCMENSICRNLNDRAVCSCRDGFRALREDNAYCEDIDECAEGRHY
CRENTMCVNTPGSFMCICKTGYIRIDDYSCTEHDECITNQHNCDENALCFNTVGGHNCVCKPGYTGNGTTCKAFC
KDGCRNGGACIAANVCACPQGFTGPSCETDIDECSDGFVQCDSRANCINLPGWYHCECRDGYHDNGMFSPSGESC
EDIDECGTGRHSCANDTICFNLDGGYDCRCPHGKNCTGDCIHDGKVKHNGQIWVLENDRCSVCSCQNGFVMCRRM
VCDCENPTVDLFCCPECDPRLSSQCLHQNGETLYNSGDTWVQNCQQCRCLQGEVDCWPLPCPDVECEFSILPENE
CCPRCVTDPCQADTIRNDITKTCLDEMNVVRFTGSSWIKHGTECTLCQCKNGHICCSVDPQCLQEL

FIGURE 2089

GTAGTGGTGCCGACTTCCTGTTGTTTGAGGCCGGGTTGGGGGTGTGCGATTGTGTGGGACGGTCTGGGGCAGCCC
AGCAGCGGCTGACCCTCTGCCTGCGGGGAAGGGAGTCGCCAGGCGGCCGTC**ATG**GCGGTGTCGGAGAGCCAGCTC
AAGAAAATGGTGTCCAAGTACAAATACAGAGACCTAACTGTACGTGAAACTGTCAATGTTATTACTCTATACAAA
GATCTCAAACCTGTTTTGGATTCATATGTTTTTAACGATGGCAGTTCCAGGGAACTAATGAACCTCACTGGAACA
ATCCCTGTGCCTTATAGAGGTAATACATACAATATTCCAATATGCCTATGGCTACTGGACACATACCCATATAAT
CCCCCTATCTGTTTTGTTAAGCCTACTAGTTCAATGACTATTAAAACAGGAAAGCATGTTGATGCAAATGGGAAG
ATATATCTTCCTTATCTACATGAATGGAAACACCCACAGTCAGACTTGTTGGGGCTTATTCAGGTCATGATTGTG
GTATTTGGAGATGAACCTCCAGTCTTCTCTCGTCCTATTTCGGCATCCTATCCGCCATACCAGGCAACGGGGCCA
CCAAATACTTCCTACATGCCAGGCATGCCAGGTGGAATCTCTCCATACCCATCCGGATACCCTCCCAATCCCAGT
GGTTACCCAGGCTGTCCTTACCCACCTGGTGGTCCATATCCTGCCACAACAAGTTCTCAGTACCCTTCTCAGCCT
CCTGTGACCACTGTTGGTCCCAGTAGGGATGGCACAATCAGCGAGGACACCATCCGAGCCTCTCTCATCTCTGCG
GTCAGTGACAAACTGAGATGGCGGATGAAGGAGGAAATGGATCGTGCCCAGGCAGAGCTCAATGCCTTGAAACGA
ACAGAAGAAGACCTGAAAAAGGGTCACCAGAAACTGGAAGAGATGGTTACCCGTTTAGATCAAGAAGTAGCCGAG
GTTGATAAAAACATAGAACTTTTGAAAAAGAAGGATGAAGAACTCAGTTCTGCTCTGGAAAAAATGGAAAATCAG
TCTGAAAACAATGATATCGATGAAGTTATCATTCCCACAGCTCCCTTATACAAACAGATCCTGAATCTGTATGCA
GAAGAAACGCTATTGAAGACACTATCTTTTACTTGGGAGAAGCCTTGAGAAGGGGCGTGATAGACCTGGATGTC
TTCCTGAAGCATGTACGTCTTCTGTCCCGTAAACAGTTCCAGCTGAGGGCACTAATGCAAAAAGCAAGAAAGACT
GCCGGTCTCAGTGACCTCTAC**TGA**CTTCTCTGATACCAGCTGGAGGTTGAGCTCTTCTTAAAGTATTCTTCTCTT
CCTTTTATCAGTAGGTGCCCAGAATAAGTTATTGCAGTTATCATTCAAGTGTAAAATATTTGAATCAATAATA
TATTTTCTGTTTTCTTTTGGTAAAGACTGGCTTTTATTAATGCACTTTCTATCCTCTGTAAACTTTTTGTGCTGA
ATGTTGGGACTGCTAAATAAAATTTGTTGCATAAAAAAAAAAAAAAAAAAA

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FIGURE 2090

MAVSESQLKKMVSKYKYRDLTVRETVNVITLYKDLKPVLDSYVFNDGSSRELMNLTGTIPVPYRGNTYNIPICLW
LLDTYPYNPPICFVKPTSSMTIKTGKHVDANGKIYLPYLHEWKHPQSDLLGLIQVMIVVFGDEPPVFSRPISASY
PPYQATGPPNTSYMPGMPGGISPYPSGYPPNPSGYPGCPYPPGGPYPATTSSQYPSQPPVTTVGPSRDGTISEDT
IRASLISAVSDKLRWRMKEEMDRAQAELNALKRTEEDLKKGHQKLEEMVTRLDQEVAEVDKNIELLKKKDEELSS
ALEKMENQSENNDIDEVIIPTAPLYKQILNLYAEENAIEDTIFYLGEALRRGVIDLDVFLKHVRLLSRKQFQLRA
LMQKARKTAGLSDLY

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FIGURE 2091

GGCCCCTTGTCTGCAGAG<u>ATG</u>GCTCCCAATGCTTCCTGCCTCTGTGTGCATGTCCGTTCCGAGGAATGGGATTTA
ATGACCTTTGATGCCAACCCATATGACAGCGTGAAAAAAATCAAAGAACATGTCCGGTCTAAGACCAAGGTTCCT
GTGCAGGACCAGGTTCTTTTGCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTCATCTTATGGCATTGAC
AAAGAGAAGACCATCCACCTTACCCTGAAAGTGGTGAAGCCCAGTGATGAGGAGCTGCCCTTGTTTCTTGTGGAG
TCAGGTGATGAGGCAAAGAGGCACCTCCTCCAGGTGCGAAGGTCCAGCTCAGTGGCACAAGTGAAAGCAATGATC
GAGACTAAGACGGGTATAATCCCTGAGACCCAGATTGTGACTTGCAATGGAAAGAGACTGGAAGATGGGAAGATG
ATGGCAGATTACGGCATCAGAAAGGGCAACTTACTCTTCCTGGCATCTTATTGTATTGGAGGG<u>**TGA**</u>CCACCCTGG
GGATGGGGTGTTGGCAGGGGTCAAAAAGCTTATTTCTTTTAATCTCTTACTCAACGAACACATCTTCTGATGATT
TCCCAAAATTAATGAGAATGAGATGAGTAGAGTAAGATTTGGGTGGGATGGGTAGGATGAAGTATATTGCCCAAC
TCTATGTTTCTTTGATTCTAACACAATTAATTAAGTGACATGATTTTTACTAATGTATTACTGAGACTAGTAAAT
AAATTTTTAAGGCAAAATAGAGCATTC

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FIGURE 2092

MAPNASCLCVHVRSEEWDLMTFDANPYDSVKKIKEHVRSKTKVPVQDQVLLLGSKILKPRRSLSSYGIDKEKTIH
LTLKVVKPSDEELPLFLVESGDEAKRHLLQVRRSSSVAQVKAMIETKTGIIPETQIVTCNGKRLEDGKMMADYGI
RKGNLLFLASYCIGG

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FIGURE 2093

GCAGACCTTGCTTCATGAGCAAGCTCATCTCTGGAACAAACTGGCAAAGCATCTCTGCTGGTGTTCATCAGAACA
GACACC**ATG**GCAGAGCATGATTACCATGAAGACTATGGGTTCAGCAGTTTCAATGACAGCAGCCAGGAGGAGCAT
CAAGACTTCCTGCAGTTCAGCAAGGTCTTTCTGCCCTGCATGTACCTGGTGGTGTTTGTCTGTGGTCTGGTGGGG
AACTCTCTGGTGCTGGTCATATCCATCTTCTACCATAAGTTGCAGAGCCTGACGGATGTGTTCCTGGTGAACCTA
CCCCTGGCTGACCTGGTGTTTGTCTGCACTCTGCCCTTCTGGGCCTATGCAGGCATCCATGAATGGGTGTTTGGC
CAGGTCATGTGCAAGAGCCTACTGGGCATCTACACTATTAACTTCTACACGTCCATGCTCATCCTCACCTGCATC
ACTGTGGATCGTTTCATTGTAGTGGTTAAGGCCACCAAGGCCTACAACCAGCAAGCCAAGAGGATGACCTGGGGC
AAGGTCACCAGCTTGCTCATCTGGGTGATATCCCTGCTGGTTTCCTTGCCCCAAATTATCTATGGCAATGTCTTT
AATCTCGACAAGCTCATATGTGGTTACCATGACGAGGCAATTTCCACTGTGGTTCTTGCCACCCAGATGACACTG
GGGTTCTTCTTGCCACTGCTCACCATGATTGTCTGCTATTCAGTCATAATCAAAACACTGCTTCATGCTGGAGGC
TTCCAGAAGCACAGATCTCTAAAGATCATCTTCCTGGTGATGGCTGTGTTCCTGCTGACCCAGATGCCCTTCAAC
CTCATGAAGTTCATCCGCAGCACACACTGGGAATACTATGCCATGACCAGCTTTCACTACACCATCATGGTGACA
GAGGCCATCGCATACCTGAGGGCCTGCCTTAACCCTGTGCTCTATGCCTTTGTCAGCCTGAAGTTTCGAAAGAAC
TTCTGGAAACTTGTGAAGGACATTGGTTGCCTCCCTTACCTTGGGGTCTCACATCAATGGAAATCTTCTGAGGAC
AATTCCAAGACTTTTTCTGCCTCCCACAATGTGGAGGCCACCAGCATGTTCCAGTTA**TAG**GCCTTGCCAGGGTTT
CGAGAAGCTGCTCTGGAATTTGCAAGTCATGGCTGTGCCCTCTTGATGTGGTGAGGCAGGCTTTGTTTATAGCTT
GCGCATTCTCATGGAGAAGTTATCAGACACTCTGGCTGGTTTGGAATGCTTCTTCTCAGGCATGAACATGTACTG
TTCTCTTCTTGAACACTCATGCTGAAAGCCCAAGTAGGGGGTCTAAAATTTTTAAGGACTTTCCTTCCTCCATCT
CCAAGAATGCTGAAACCAAGGGGGATGACATGTGACTCCTATGATCTCAGGTTCTCCTTGATTGGGACTGGGGCT
GAAGGTTGAAGAGGTGAGCACGGCCAACAAAGCTGTTGATGGTAGGTGGCACACTGGGTGCCCAAGCTCAGAAGG
CTCTTCTGACTACTGGGCAAAGAGTGTAGATCAGAGCAGCAGTGAAAACAAGTGCTGGCACCACCAGGCACCTCA
CAGAAATGAGATCAGGCTCTGCCTCACCTTGGGGCTTGACTTTTGTATAGGTAGATGTTCAGATTGCTTTGATTA
ATCCAGAATAACTAGCACCAGGGACTATGAATGGGCAAAACTGAATTATAAGAGGCTGATAATTCCAGTGGTCCA
TGGAATGCTTGAAAAATGTGCAAAACAGCGTTTAAGACTGTAATGAATCTAAGCAGCATTTCTGAAGTGGACTCT
TTGGTGGCTTTGCATTTTAAAAATGAAATTTTCCAATGTCTGCCACACAAACGTATGTAAATGTATATACCCACA
CACATACACACATATGTCATATATTACTAGCATATGAGTTTCATAGCTAAGAAATAAAACTGTTAAAGTCTCCAA
ACT

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FIGURE 2094

MAEHDYHEDYGFSSFNDSSQEEHQDFLQFSKVFLPCMYLVVFVCGLVGNSLVLVISIFYHKLQSLTDVFLVNLPL
ADLVFVCTLPFWAYAGIHEWVFGQVMCKSLLGIYTINFYTSMLILTCITVDRFIVVVKATKAYNQQAKRMTWGKV
TSLLIWVISLLVSLPQIIYGNVFNLDKLICGYHDEAISTVVLATQMTLGFFLPLLTMIVCYSVIIKTLLHAGGFQ
KHRSLKIIFLVMAVFLLTQMPFNLMKFIRSTHWEYYAMTSFHYTIMVTEAIAYLRACLNPVLYAFVSLKFRKNFW
KLVKDIGCLPYLGVSHQWKSSEDNSKTFSASHNVEATSMFQL

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FIGURE 2095

CGGAGCGCGAGCAGAGCGAGACCCCCAGGTCCTGCGGGCGCGGAATATCCTGGAACCTTCTTTTGTTTGTCAGCA
GCCAAGGTGTTTCCAGGAAGTTCAGAGAGAACAGAATTTAAGAAGTGCAAC**ATG**GCCAGGGGCTGCCTCTGCTGC
TTGAAGTACATGATGTTCCTCTTCAATTTGATATTCTGGCTCTGTGGCTGTGGGCTGCTGGGAGTGGGCATCTGG
CTCTCCGTGTCCCAAGGCAACTTTGCCACCTTCTCCCCCAGCTTCCCTTCGTTGTCTGCAGCCAACCTGGTCATT
GCCATAGGCACCATTGTCATGGTGACGGGCTTCCTCGGCTGCCTGGGGGGCCATCAAGGAAAACAAGTGCCTCCTC
CTCAGCTTTTTCATCGTCCTGTTGGTCATCCTCCTAGCAGAGCTGATCTTACTCATCCTCTTCTTTGTCTACATG
GACAAGGTGAACGAGAACGCCAAGAAGGACCTGAAGGAAGGCCTGCTGCTGTACCACACCGAGAACAACGTGGGG
CTGAAGAACGCCTGGAACATCATCCAGGCTGAGATGCGATGCTGTGGTGTCACTGACTACACAGACTGGTACCCA
GTGCTGGGGGAGAACACGGTTCCCGACCGCTGCTGCATGGAGAACTCCCAGGGCTGCGGGCGCAACGCCACCACG
CCTTTGTGGAGAACGGGCTGCTATGAAAAGGTGAAGATGTGGTTCGATGACAATAAGCACGTGCTGGGCACGGTG
GGGATGTGCATCCTCATCATGCAGATCCTGGGCATGGCCTTCTCCATGACCCTCTTCCAGCACATCCACCGGACT
GGTAAGAAGTACGACGCA**TGA**GCGGGCTGGCCGGGAGTGCCCACCCCGCCCTGCTGCCCTGTGGAGGGAAGAGGA
TTGAGCTTTGTGTCACCTGCCTGCGCTCTCCAGATATGACCCCTGCACCCACCCCCCACAGCCTGCCCTACCCCA
CCTACCCTGCCTCAGCCTCGGACTTCTCAGTGGGTGGAGTGCCAGGGAGGAGGAGGCACACGGAGACCTGGGGCT
CGGGGCCCCTGGATTCCTGCATCTGCATATGCGTATTTGCCAAAGACGACAGGGTGGGCTGGGGTGCGCTCCGGA
GGAACCCCCGGCACTGATGGGCTTCTGCCCCTGCCCTTCCTCACACTGACACTTTGTCCCCACATGGGGTGGGGA
GCAGAGTGCCCGCCCCGTGGAGATACCGCCCCAGCGGGGGCTGCGACATCCATGGCCACCATGGGGCACCTGGCG
GGGCGGGGGTCTGCCGGCCTCTGGGCAAGGCCCCTGGAGCATCTCGCCCAGGCTTTTTATACCTTACAATGTAAC
TTTTTTATTTTATTTTACTCTATGATTATTCAGGAATATTATCTCTCAGATAAGTTTAGGGTTAAAAAAAAAAAA
AAAAAAA

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FIGURE 2096

MARGCLCCLKYMMFLFNLIFWLCGCGLLGVGIWLSVSQGNFATFSPSFPSLSAANLVIAIGTIVMVTGFLGCLGA
IKENKCLLLSFFIVLLVILLAELILLILFFVYMDKVNENAKKDLKEGLLLYHTENNVGLKNAWNIIQAEMRCCGV
TDYTDWYPVLGENTVPDRCCMENSQGCGRNATTPLWRTGCYEKVKMWFDDNKHVLGTVGMCILIMQILGMAFSMT
LFQHIHRTGKKYDA

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FIGURE 2097

TTGGAACACCTGGCGAGTCCTCGGTGTCGGTGGCCGGCAGTCATCTCGCGGCCGTTCAGAATTATAAGGCTGTCT
GCAGAGATTTGAAAA**ATG**GCAACAAATGAAAGTGTCAGCATCTTTAGTTCAGCATCCTTGGCTGTGGAATATGTA
GATTCACTTTTACCTGAGAATCCTCTGCAAGAACCATTTAAAAATGCTTGGAACTATATGTTGAATAATTATACA
AAGTTCCAGATTGCAACATGGGGATCCCTTATAGTTCATGAAGCCCTTTATTTCTTATTCTGTTTACCTGGATTT
TTATTTCAATTTATACCTTATATGAAAAAATACAAAATTCAAAAGGATAAGCCAGAGACATGGGAAAACCAATGG
AAGTGTTTCAAAGTTCTTCTCTTTAATCACTTCTGTATCCAGCTGCCTTTGATTTGTGGAACCTATTATTTTACA
GAGTATTTCAATATTCCTTATGATTGGGAAAGAATGCCAAGATGGTATTTTCTTTTGGCAAGATGCTTTGGTTGT
GCAGTCATTGAAGATACTTGGCACTATTTTCTGCATAGACTCTTACACCACAAAAGAATATACAAGTATATTCAT
AAAGTTCATCATGAGTTTCAGGCTCCATTTGGAATGGAAGCTGAATATGCACATCCTTTGGAGACTCTAATTCTT
GGAACTGGATTTTTCATTGGAATCGTGCTTTTGTGTGATCATGTAATTCTTCTTTGGGCATGGGTGACCATTCGT
TTATTAGAAACTATTGATGTCCATAGTGGTTATGATATTCCTCTCAACCCTTTAAATCTGATCCCTTTCTATGCT
GGTTCTCGGCATCATGATTTCCACCACATGAACTTCATTGGAAACTATGCTTCAACATTTACATGGTGGGATCGA
ATTTTTGGAACAGACTCTCAGTATAATGCCTATAATGAAAAGAGGAAGAAGTTTGAGAAAAAGACTGAA**TAA**ATA
TCTCACGTAAACCTTCCTGAAAGATAAACGTTTTCCTGAATTCAGAAACTAGTAGCTAACATTGCTTCTGGAGAG
CAGAAATAAGCATGTCTTCTGGCTACTAAGTGATAAAAAGAACATTAACAACCTTTAATTACCTTCCTAGTGGGA
ACTTTTTCTACTTTACCTACAAGTTCTATATATGTAGAAATGAATAAATATATATTTAAGTACAGTTTTCATGAG
GAAGTTTTAAAAGACCATGTTCCTAAGCTTCCAAGAAGGTTTTGGATACTAGAAGTATTAATCTATGGCTTTTCT
CCCAGTAAAACCATAGGCCTGAAGTTCACATTGGGTCTTTAAATCTTTTAGATATATACTGGTCATTTCAGAAAA
TTCTTCATAGTGGTATTGGCCTTATATTTAACTTTTTTTTTATTTTTTTTTTGAGACAAAGCCACACTCTGTCTC
CTTGTCTGGAGTGTGGTGGCACAGTCTCAGCTCACTGCAACCTCTGCCTCCCAGTTCAAGCAATTCTTCTGCCTC
AGCCTCCCAAGTAGCTGGGATTACAGGCACCCGCCACCACGCCCAGCTAATTTTTGTATTTTTGTAGAGATGGGG
TTTCTCGATGTTGGCCAGGCTGGTCTCAAACTTCTGACCTCAAGTGATCTGCCCACCTTGGCCTCCCAAAGTGCT
GGGATTACAGGTGTAAGCCACTGCGCCCGGCCTTTTTAACTTTAAACATGTTTTAGAATTCACCTAAAGATCAAA
ATATCATGGATTGAAC

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FIGURE 2098

MATNESVSIFSSASLAVEYVDSLLPENPLQEPFKNAWNYMLNNYTKFQIATWGSLIVHEALYFLFCLPGFLFQFI
PYMKKYKIQKDKPETWENQWKCFKVLLFNHFCIQLPLICGTYYFTEYFNIPYDWERMPRWYFLLARCFGCAVIED
TWHYFLHRLLHHKRIYKYIHKVHHEFQAPFGMEAEYAHPLETLILGTGFFIGIVLLCDHVILLWAWVTIRLLETI
DVHSGYDIPLNPLNLIPFYAGSRHHDFHHMNFIGNYASTFTWWDRIFGTDSQYNAYNEKRKKFEKKTE

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FIGURE 2099

GCCGCCGCCGCC**ATG**AACATTTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGGCCATCGTCATCCTGCTGCTG
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCACTGGTCTTCACAACT
CGTTACCTGGATCTTTTTACTTCATTTATTTCATTGTATAACACATCTATGAAGGTTATCTACCTTGCCTGCTCC
TATGCCACAGTGTACCTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG
TTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACC
TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTGTTTATGATCAGCAAGACTGGGGAGGCCGAGACC
ATCACCACCCACTACCTGTTCTTCCTGGGCCTCTATCGTGCTTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC
TTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC
TTGTACATTACAAAAGTACTCAAGGGAAAGAAGCTCAGTTTGCCAGCA**TAA**GTGCCAAAGACCATCACCAGCATC
TGTCCTTCAGGGTGCTCGGACAGAATTCTTACCACAGCAAAGGCATAAGATGCTTGATACGGAAAATCAGAAACT
TAACTCTTTTGTTGCAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA
ATGCATCTTGCCTTATCTTTTTTTATTACTGTGTACAAAGATTTTTTTACACAAAGAAACTTAATGCTGTATTAA
TAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTGTGAGGAATAAGTGCAAATTTTTTT
TTTATTTTAAAAAATTCTTTGAAACTCTTAAGTCTTTGTGTCTGCAATGAAATTGTACTCCTTGACAGTTGATAG
ATTATGTATTCTTCCATCCCTCAAACTTGCATTCCACTATATTTATTTTTTGGCAAAAGATGAGCTGTATTTGTT
TGAAATCTGAGACACTATGTTCAATTGG

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FIGURE 2100

MNIFRLTGDLSHLAAIVILLLKIWKTRSCAGISGKSQLLFALVFTTRYLDLFTSFISLYNTSMKVIYLACSYATV
YLIYLKFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSPLEILWTFSIYLESVAILPQLFMISKTGEAETITTH
YLFFLGLYRALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFYLYITKVLKGKKLSLPA

FIGURE 2101

GAGGAGTGGATTACATATTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAGAACTTGGGAAGAAAGAGTTTGC
TGGCCTGTGCTTCGAAGAACTCTGATCTGCTTTCTATAGATAATGAGGAAGAAATGGTATGTGTGGGGACTTCCC
AGTTGGCTGTAAGTTGCCATTTGAACTAAACGAAATAGATCAGGAACTGAGGACATATCTAAATTTTCTAGTTTT
ATAGAAGGCTTTTATCCACAAGAATCAAGATCTTCCCTCTCTGAGCAGGAATCCTTTGTGCATTGAAGACTTTAG
ATTCCTCTCTGCGGTAGACGTGCACTTATAAGTATTTG**ATG**GGGTGGATTCGTGGTCGGAGGTCTCGACACAGCT
GGGAGATGAGTGAATTTCATAATTATAACTTGGATCTGAAGAAGAGTGATTTTTCAACACGATGGCAAAAGCAAA
GATGTCCAGTAGTCAAAAGCAAATGTAGAGAAATGCATCTCCATTTTTTTTCTGCTGCTTCATCGCTGTAGCCA
TGGGAATCCGTTTCATTATTATGGTAGCAATATGGAGTGCTGTATTCCTAAACTCATTATTCAACCAAGAAGTTC
AAATTCCCTTGACCGAAAGTTACTGTGGCCCATGTCCTAAAAACTGGATATGTTACAAAAATAACTGCTACCAAT
TTTTTGATGAGAGTAAAAACTGGTATGAGAGCCAGGCTTCTTGTATGTCTCAAAATGCCAGCCTTCTGAAAGTAT
ACAGCAAAGAGGACCAGGATTTACTTAAACTGGTGAAGTCATATCATTGGATGGGACTAGTACACATTCCAACAA
ATGGATCTTGGCAGTGGGAAGATGGCTCCATTCTCTCACCCAACCTACTAACAATAATTGAAATGCAGAAGGGAG
ACTGTGCACTCTATGCCTCGAGCTTTAAAGGCTATATAGAAAACTGTTCAACTCCAAATACATACATCTGCATGC
AAAGGACTGTG**TAA**AGATGATCAACCATCTCAATAAAAGCCAGGAACAGAGAAGAGATTACACCAGCGGTAACAC
TGCCAACCGAGACTAAAGGAAACAAACAAAAACAGGACAAAATGACCAAAGACTGTCAGATTTCTTAGACTCCAC
AGGACCAAACCATAGAACAATTTCACTGCAAACATGCATGATTCTCCAAGACAAAAGAAGAGAGATCCTAAAGGC
AATTCAGATATCCCCAAGGCTGCCTCTCCCACCACAAGCCCAGAGTGGATGGGCTGGGGGAGGGGTGCTGTTTTA
ATTTCTAAAGGTAGGACCAACACCCAGGGGATCAGTGAAGGAAGAGAAGGCCAGCAGATCAGTGAGAGTGCAACC
CCACCCTCCACAGGAAATTGCCTCATGGGCAGGGCCACAGCAGAGAGACACAGCATGGGCAGTGCCTTCCCTGCC
TGTGGGGGTCATGCTGCCACTTTTAATGGGTCCTCCACCCAACGGGGTCAGGGAGGTGGTGCTGCCCCAGTGGGC
CATGATTATCTTAAAGGCATTATTCTCCAGCCTTAAGATCTTAGGACGTTTCCTTTGCTATGATTTGTACTTGCT
TGAGTCCCATGACTGTTTCTCTTCCTCTCTTTCTTCCTTTTGGAATAGTAATATCCATCCTATGTTTGTCCCACT
ATTGTATTTTGGAAGCACATAACTTGTTTGGTTTCACAGGTTCACAGTTAAGAAGGAATTTTGCCTCTGAATAAA
TAGAATCTTGAGTCTCATGCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2102

MGWIRGRRSRHSWEMSEFHNYNLDLKKSDFSTRWQKQRCPVVKSKCRENASPFFFCCFIAVAMGIRFIIMVAIWS
AVFLNSLFNQEVQIPLTESYCGPCPKNWICYKNNCYQFFDESKNWYESQASCMSQNASLLKVYSKEDQDLLKLVK
SYHWMGLVHIPTNGSWQWEDGSILSPNLLTIIEMQKGDCALYASSFKGYIENCSTPNTYICMQRTV

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FIGURE 2103

CTCGTGCCGAATTCGGCACGAGACCGCGTGTTCGCGCCTGGTAGAGATTTCTCGAAGACACCAGTGGGCCCGTGT
GGAACCAAACCTGCGCGCGTGGCCGGGCCGTGGGACAACGAGGCCGCGGAGACGAAGGCGCA<ins>ATG</ins>GCGAGGAAGT
TATCTGTAATCTTGATCCTGACCTTTGCCCTCTCTGTCACAAATCCCCTTCATGAACTAAAAGCAGCTGCTTTCC
CCCAGACCACTGAGAAAATTAGTCCGAATTGGGAATCTGGCATTAATGTTGACTTGGCAATTTCCACACGGCAAT
ATCATCTACAACAGCTTTTCTACCGCTATGGAGAAAATAATTCTTTGTCAGTTGAAGGGTTCAGAAAATTACTTC
AAAATATAGGCATAGATAAGATTAAAAGAATCCATATACACCATGACCACGACCATCACTCAGACCACGAGCATC
ACTCAGACCATGAGCGTCACTCAGACCATGAGCATCACTCAGACCACGAGCATCACTCTGACCATAATCATGCTG
CTTCTGGTAAAAATAAGCGAAAAGCTCTTTGCCCAGACCATGACTCAGATAGTTCAGGTAAAGATCCTAGAAACA
GCCAGGGGAAAGGAGCTCACCGACCAGAACATGCCAGTGGTAGAAGGAATGTCAAGGACAGTGTTAGTGCTAGTG
AAGTGACCTCAACTGTGTACAACACTGTCTCTGAAGGAACTCACTTTCTAGAGACAATAGAGACTCCAAGACCTG
GAAAACTCTTCCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTCACATCAAAGAGCCGGGTGAGCCGGCTGG
CTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCCAGAAACACAAATGAAAATC
CTCAGGAGTGTTTCAATGCATCAAAGCTACTGACATCTCATGGCATGGGCATCCAGGTTCCGCTGAATGCAACAG
AGTTCAACTATCTCTGTCCAGCCATCATCAACCAAATTGATGCTAGATCTTGTCTGATTCATACAAGTGAAAAGA
AGGCTGAAATCCCTCCAAAGACCTATTCATTACAAATAGCCTGGGTTGGTGGTTTTATAGCCATTTCCATCATCA
GTTTCCTGTCTCTGCTGGGGGTTATCTTAGTGCCTCTCATGAATCGGGTGTTTTTCAAATTTCTCCTGAGTTTCC
TTGTGGCACTGGCCGTTGGGACTTTGAGTGGTGATGCTTTTTTACACCTTCTTCCACATTCTCATGCAAGTCACC
ACCATAGTCATAGCCATGAAGAACCAGCAATGGAAATGAAAAGAGGACCACTTTTCAGTCATCTGTCTTCTCAAA
ACATAGAAGAAAGTGCCTATTTTGATTCCACGTGGAAGGGTCTAACAGCTCTAGGAGGCCTGTATTTCATGTTTC
TTGTTGAACATGTCCTCACATTGATCAAACAATTTAAAGATAAGAAGAAAAAGAATCAGAAGAAACCTGAAAATG
ATGATGATGTGGAGATTAAGAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACAAATGAGGAGAAAGTAGATA
CAGATGATCGAACTGAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCCACTTTGATTCTCAGCAGCCTGCAG
TCTTGGAAGAAGAAGAGGTCATGATAGCTCATGCTCATCCACAGGAAGTCTACAATGAATATGTACCCAGAGGGT
GCAAGAATAAATGCCATTCACATTTCCACGATACACTCGGCCAGTCAGACGATCTCATTCACCACCATCATGACT
ACCATCATATTCTCCATCATCACCACCACCAAAACCACCATCCTCACAGTCACAGCCAGCGCTACTCTCGGGAGG
AGCTGAAAGATGCCGGCGTCGCCACTTTGGCCTGGATGGTGATAATGGGTGATGGCCTGCACAATTTCAGCGATG
GCCTAGCAATTGGTGCTGCTTTTACTGAAGGCTTATCAAGTGGTTTAAGTACTTCTGTTGCTGTGTTCTGTCATG
AGTTGCCTCATGAATTAGGTGACTTTGCTGTTCTACTAAAGGCTGGCATGACCGTTAAGCAGGCTGTCCTTTATA
ATGCATTGTCAGCCATGCTGGCGTATCTTGGAATGGCAACAGGAATTTTCATTGGTCATTATGCTGAAAATGTTT
CTATGTGGATATTTGCACTTACTGCTGGCTTATTCATGTATGTTGCTCTGGTTGATATGGTACCTGAAATGCTGC
ACAATGATGCTAGTGACCATGGATGTAGCCGCTGGGGGTATTTCTTTTTACAGAATGCTGGGATGCTTTTGGGTT
TTGGAATTATGTTACTTATTTCCATATTTGAACATAAAATCGTGTTTCGTATAAATTTCTAGTTAAGGTT<ins>TAA</ins>AT
GCTAGAGTAGCTTAAAAAGTTGTCATAGTTTCAGTAGGTCATAGGGAGATGAGTTTGTATGCTGTACTATGCAGC
GTTTAAAGTTAGTGGGTTTTGTGATTTTTGTATTGAATATTGCTGTCTGTTACAAAGTCAGTTAAAGGTACGTTT
TAATATTTAAGTTATTCTATCTTGGAGATAAAATCTGTATGTGCAATTCACCGGTATTACCAGTTTATTATGTAA
ACAAGAGATTTGGCATGACATGTTCTGTATGTTTCAGGGAAAAATGTCTTTAATGCTTTTTCAAGAACTAACACA
GTTATTCCTATACTGGATTTTAGGTCTCTGAAGAACTGCTGGTG

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FIGURE 2104

MARKLSVILILTFALSVTNPLHELKAAAFPQTTEKISPNWESGINVDLAISTRQYHLQQLFYRYGENNSLSVEGF
RKLLQNIGIDKIKRIHIHHDHDHHSDHEHHSDHERHSDHEHHSDHEHHSDHNHAASGKNKRKALCPDHDSDSSGK
DPRNSQGKGAHRPEHASGRRNVKDSVSASEVTSTVYNTVSEGTHFLETIETPRPGKLFPKDVSSSTPPSVTSKSR
VSRLAGRKTNESVSEPRKGFMYSRNTNENPQECFNASKLLTSHGMGIQVPLNATEFNYLCPAIINQIDARSCLIH
TSEKKAEIPPKTYSLQIAWVGGFIAISIISFLSLLGVILVPLMNRVFFKFLLSFLVALAVGTLSGDAFLHLLPHS
HASHHHSHSHEEPAMEMKRGPLFSHLSSQNIEESAYFDSTWKGLTALGGLYFMFLVEHVLTLIKQFKDKKKKNQK
KPENDDDVEIKKQLSKYESQLSTNEEKVDTDDRTEGYLRADSQEPSHFDSQQPAVLEEEEVMIAHAHPQEVYNEY
VPRGCKNKCHSHFHDTLGQSDDLIHHHHDYHHILHHHHHQNHHPHSHSQRYSREELKDAGVATLAWMVIMGDGLH
NFSDGLAIGAAFTEGLSSGLSTSVAVFCHELPHELGDFAVLLKAGMTVKQAVLYNALSAMLAYLGMATGIFIGHY
AENVSMWIFALTAGLFMYVALVDMVPEMLHNDASDHGCSRWGYFFLQNAGMLLGFGIMLLIPYLNIKSCSYKFLV
KV

FIGURE 2105

GTATCTGTGGTAAACCCAGTGACACGGGGGAGATGACATACAAAAAGGGCAGGACCTGAGAAAGATTAAGCTGCA
GGCTCCCTGCCCATAAAACAGGGTGTGAAAGGCATCTCAGCGGCTGCCCCACC**ATG**GCTACCTGGGCCCTCCTGC
TCCTTGCAGCCATGCTCCTGGGCAACCCAGGTCTGGTCTTCTCTCGTCTGAGCCCTGAGTACTACGACCTGGCAA
GAGCCCACCTGCGTGATGAGGAGAAATCCTGCCCGTGCCTGGCCCAGGAGGGCCCCCAGGGTGACCTGTTGACCA
AAACACAGGAGCTGGGCCGTGACTACAGGACCTGTCTGACGATAGTCCAAAAACTGAAGAAGATGGTGGATAAGC
CCACCCAGAGAAGTGTTTCCAATGCTGCGACCCGGGTGTGTAGGACGGGGAGGTCACGATGGCGCGACGTCTGCA
GAAATTTCATGAGGAGGTATCAGTCTAGAGTTACCCAGGGCCTCGTGGCCGGAGAAACTGCCCAGCAGATCTGTG
AGGACCTCAGGTTGTGTATACCTTCTACAGGTCCCCTC**TGA**GCCCTCTCACCTTGTCCTGTGGAAGAAGCACAGG
CTCCTGTCCTCAGATCCCGGGAACCTCAGCAACCTCTGCCGGCTCCTCGCTTCCTCGATCCAGAATCCACTCTCC
AGTCTCCCTCCCCTGACTCCCTCTGCTGTCCTCCCCTCTCACGAGAATAAAGTGTCAAGCAAG

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FIGURE 2106

MATWALLLLAAMLLGNPGLVFSRLSPEYYDLARAHLRDEEKSCPCLAQEGPQGDLLTKTQELGRDYRTCLTIVQK
LKKMVDKPTQRSVSNAATRVCRTGRSRWRDVCRNFMRRYQSRVTQGLVAGETAQQICEDLRLCIPSTGPL

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FIGURE 2107

CGGTTCTCCAAGCACCCAGCATCCTGCTAGACGCGCCGCGCACCGACGGAGGGGAC**ATG**GGCAGAGCAATGGTGG
CCAGGCTGGGGCTGGGGCTGCTGCTGCTGGCACTGCTCCTACCCACGCAGATTTATTCCAGTGAAACAACAACTG
GAACTTCAAGTAACTCCTCCCAGAGTACTTCCAACTCTGGGTTGGCCCCAAATCCAACTAATGCCACCACCAAGG
CGGCTGGTGGTGCCCTGCAGTCAACAGCCAGTCTCTTCGTGGTCTCACTCTCTCTTCTGCATCTCTACTCT**TAA**G
AGACTCAGGCCAAGAAACGTCTTCTAAATTTCCCCATCTTCTAAACCCAATCCAAATGGCGTCTGGAAGTCCAAT
GTGGCAAGGAAAAACAGGTCTTCATCGAATCTACTAATTCCACACCTTTTATTGACACAGAAAATGTTGAGAATC
CCAAATTTGATTGATTTGAAGAACATGTGAGAGGTTTGACTAGATGATGAATGCCAATATTAAATCTGCTGGAGT
TTCATGTACAAGATGAAGGAGAGGCAACATCCAAAATAGTTAAGACATGATTTCCTTGAATGTGGCTTGAGAAAT
ATGGACACTTAATACTACCTTGAAAATAAGAATAGAAATAAAGGATGGGATTGTGGAATGGAGATTCAGTTTTCA
TTGGTTCATTAATTCTATAAGGCCATAAAACAGGTAATATAAAAAGCTTCCATCGATCTATTTATATGTACATGA
GAAGGAATCCCCAGGTGTTACTGTAATTCCTCAACGTATTGTTTCGACGGCACTAATTTAATGCCGATATACTCT
AGATGAATGTTTACATTGTTGAGCTATTGCTGTTCTCTTGGGAACTGAACTCACTTTCCTCCTGAGGCTTTGGAT
TTGACATTGCATTTGACCTTTTAGGTAGTAATTGACATGTGCCAGGGCAATGATGAATGAGAATCTACCCCAGAT
CCAAGCATCCTGAGCAACTCTTGATTATCCATATTGAGTCAAATGGTAGGCATTTCCTATCACCTGTTTCCATTC
AACAAGAGCACTACATTCTTTTAGCTAAACGGATTCCAAAGAGTAGAATTGCATTGACCACGACTAATTTCAAAA
TGCTTTTTATTATTATTATTTTTTAGACAGTCTCACTTTGTCGCCCAGGCCGGAGTGCAGTGGTGCGATCTCAGA
TCAGTGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCAC
CTGCCACCATGCCCGGCTAATTTTTGTAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTAGA
ACTCCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGCCCA
GCCATCAAAATGCTTTTTATTTCTGCATATGTTTGAATACTTTTTACAATTAAAAAAAATGATCTGTTTTGAAGG
CAAAATTGCAAATCTTGAAATTAAGAAGGCAAAATGTAAAGGAGTCAAACTATAAATCAAGTATTTGGGAAGTGA
AGACTGGAAGCTAATTTGCATAAATTCACAAACTTTTATACTCTTTCTGTATATACATTTTTTTTCTTTAAAAAA
CAACTATGGATCAGAATAGCAACATTTAGAACACTTTTTGTTATCAGTCAATATTTTTAGATAGTTAGAACCTGG
TCCTAAGCCTAAAAGTGGGCTTGATTCTGCAGTAAATCTTTTACAACTGCCTCGACACACATAAACCTTTTTAAA
AATAGACACTCCCCGAAGTCTTTTGTTTGTATGGTCACACACTGATGCTTAGATGTTCCAGTAATCTAATATGGC
CACAGTAGTCTTGATGACCAAAGTCCTTTTTTTCCATCTTTAGAAAACTACATGGGAACAAACAGATCGAACAGT
TTTGAAGCTACTGTGTGTGTGAATGAACACTCTTGCTTTATTCCAGAATGCTGTACATCTATTTTGGATTGTATA
TTGTGGTTGTGTATTTACGCTTTGATTCATAGTAACTTCTTATGGAATTGATTTGCATTGAACGACAAACTGTAA
ATAAAAAGAAACGGTG

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FIGURE 2108

MGRAMVARLGLGLLLLALLLPTQIYSSETTTGTSSNSSQSTSNSGLAPNPTNATTKAAGGALQSTASLFVVSLSL
LHLYS

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FIGURE 2109

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CTTCGCGGCTTGGTAACATAAAAGTTTGTTTCACCACGTAAGCCGGACCTCGCACTCCGGTCCCGGTCTCGTCGC
CAAGATGGTGAAGCCCAAGTACAAAGGACGGAGCACCATCAACCCGTCCAAGGCCAGCACAAACCCAGATCGAGT
GCAGGGAGCAGGAGGCCAAAACATGAGGGACCGGGCCACCATCCGGCGCCTGAATATGTATAGGCAAAAGGAGCG
CAGGAACAGTCGTGGTAAAATAATTAAACCCCTGCAATATCAATCAACGGTGGCTTCTGGCACAGTGGCAAGAGT
AGAGCCAAATATTAAATGGTTTGGAAACACACGTGTGATTAAGCAGTCATCATTACAAAAATTTCAAGAGGAAAT
GGATACAGTTATGAAGGATCCATACAAAGTTGTCATGAAGCAAAGCAAGTTACCAATGTCTCTTCTCCATGATCG
AATCCGGCCTCATAACTTGAAGGTGCACATTCTTGATACTGAAAGTTTTGAAACTACATTTGGCCCTAAGTCACA
GAGGAAACGACCAAACTTATTTGCAAGTGATATGCAGTCTCTTATCGAAAATGCTGAAATGTCCACTGAGAGCTA
TGACCAGGGCAAGGATCGTGATTTGGTAACTGAAGACACTGGTGTGAGAAATGAAGCTCAAGAAGAGATCTATAA
AAAGGGACAGTCCAAAAGAATATGGGGTGAGCTCTACAAGGTGATAGATTCATCAGATGTTGTAGTTCAAGTTCT
TGATGCTAGAGATCCAATGGGTACTCGTTCCCCTCACATTGAAACTTACCTGAAGAAGGAAAAACCTTGGAAACA
CCTCATTTTTGTACTTAACAAATGTGACCTTGTTCCAACCTGGGCAACAAAACGGTGGGTTGCTGTCCTCTCCCA
GGATTATCCAACACTTGCTTTCCATGCAAGCCTTACTAACCCGTTTGGCAAGGGAGCATTCATTCAGCTTCTGCG
GCAGTTTGGAAAGTTGCACACTGACAAGAAACAGATCAGTGTTGGGTTCATTGGCTATCCAAATGTTGGCAAGAG
CTCTGTGATAAATACATTGCGTTCTAAGAAAGTTTGCAACGTGGCTCCCATTGCAGGTGAAACAAAGGTCTGGCA
GTATATTACTTTGATGCGTCGGATATTCCTGATTGACTGTCCAGGTGTGGTTTACCCCTCTGAGGACTCCGAGAC
AGACATTGTGCTAAAAGGAGTTGTTCAAGTAGAAAAAATTAAGAGTCCTGAAGACCACATTGGTGCTGTACTTGA
ACGAGCAAAGCCAGAATATATCAGCAAAACATACAAGATTGATTCTTGGGAGAATGCTGAGGACTTTCTTGAGAA
GCTCGCTTTCCGGACTGGGAAGTTACTAAAGGGTGGAGAGCCCGACTTGCAGACTGTGGGTAAGATGGTCCTCAA
TGACTGGCAGAGGGGCCGGATTCCTTTCTTTGTCAAGCCACCCAATGCAGAGCCACTTGTGGCCCCCCAGCTTCT
ACCCTCCTCATCTTTGGAAGTTGTCCCAGAAGCAGCCCAGAACAATCCAGGGGAGGAAGTCACAGAAACTGCAGG
TGAAGGGTCAGAATCCATCATTAAGGAAGAAACAGAAGAGAACAGTCACTGTGATGCTAACACAGAGATGCAGCA
GATTCTCACACGAGTTCGGCAGAACTTTGGTAAAATCAACGTGGTGCCTCAGTTTTCTGGGGATGACCTGGTTCC
TGTGGAGGTGTCAGATCTTGAGGAAGAGCTTGAGAGCTTTTCTGATGAAGAGGAGGAGGAACAGGAGCAACAAAG
AGATGATGCGGAAGAGTCTTCCTCGGAGCCTGAGGAGGAAAATGTGGGAAACGACACCAAAGCCGTTATTAAAGC
ACTGGATGAGAAGATTGCCAAATATCAGAAGTTTCTAGACAAAGCCAAAGCCAAAAAGTTTTCAGCAGTCAGAAT
ATCCAAGGGACTGAGTGAAAAGATATTTGCAAAACCTGAAGAACAAAGAAAAACACTGGAAGAAGATGTAGATGA
CAGAGCACCTTCCAAAAAGGGAAAGAAGCGGAAGGCACAAAGGGAAGAGGAACAGGAACATTCAAATAAAGCTCC
CAGGGCGCTTACATCAAAAGAACGGAGGCGAGCAGTACGACAGCAACGGCCGAAAAAAGTTGGTGTGCGCTACTA
TGAAACACACAACGTGAAAAATAGGAACAGGAACAAAAAGAAGACCAATGACTCAGAGGGACAGAAACACAAACG
CAAAAAATTCAGACAAAAGCAGTAATGTTTAAAAGGTTTTTATTAAATTATACAAAAACAGGCAAAAAAAAAAAA
AAAAAA
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FIGURE 2110

MVKPKYKGRSTINPSKASTNPDRVQGAGGQNMRDRATIRRLNMYRQKERRNSRGKIIKPLQYQSTVASGTVARVE
PNIKWFGNTRVIKQSSLQKFQEEMDTVMKDPYKVVMKQSKLPMSLLHDRIRPHNLKVHILDTESFETTFGPKSQR
KRPNLFASDMQSLIENAEMSTESYDQGKDRDLVTEDTGVRNEAQEEIYKKGQSKRIWGELYKVIDSSDVVVQVLD
ARDPMGTRSPHIETYLKKEKPWKHLIFVLNKCDLVPTWATKRWVAVLSQDYPTLAFHASLTNPFGKGAFIQLLRQ
FGKLHTDKKQISVGFIGYPNVGKSSVINTLRSKKVCNVAPIAGETKVWQYITLMRRIFLIDCPGVVYPSEDSETD
IVLKGVVQVEKIKSPEDHIGAVLERAKPEYISKTYKIDSWENAEDFLEKLAFRTGKLLKGGEPDLQTVGKMVLND
WQRGRIPFFVKPPNAEPLVAPQLLPSSSLEVVPEAAQNNPGEEVTETAGEGSESIIKEETEENSHCDANTEMQQI
LTRVRQNFGKINVVPQFSGDDLVPVEVSDLEEELESFSDEEEEEQEQQRDDAEESSSEPEEENVGNDTKAVIKAL
DEKIAKYQKFLDKAKAKKFSAVRISKGLSEKIFAKPEEQRKTLEEDVDDRAPSKKGKKRKAQREEEQEHSNKAPR
ALTSKERRRAVRQQRPKKVGVRYYETHNVKNRNRNKKKTNDSEGQKHKRKKFRQKQ

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FIGURE 2111

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GGCACGAGGGCTGCCACGGCATGGAGAATGGCTCCGCTTCTGTTGCAGCTGGCGGTGCTCGGCGCGGCGCTGGCG
GCCGCAGCCCTCGTACTGATTTCCATCGTTGCATTTACAACTGCTACAAAAATGCCAGCACTCCATCGACATGAA
GAAGAGAAATTCTTCTTAAATGCCAAAGGCCAGAAAGAAACTTTACCCAGCATATGGGACTCACCTACCAAACAA
CTTTCTGTCGTTGTGCCTTCATACAATGAAGAAAAACGGTTGCCTGTGATGATGGATGAAGCTCTGAGCTATCTA
GAGAAGAGACAGAAACGAGATCCTGCGTTCACTTATGAAGTGATAGTAGTTGATGATGGCAGTAAAGATCAGACC
TCAAAGGTAGCTTTTAAATATTGCCAGAAATATGGAAGTGACAAAGTACGTGTGATAACCCTGGTGAAGAATCGT
GGAAAAGGTGGAGCGATTAGAATGGGTATATTCAGTTCTCGAGGAGAAAAGATCCTTATGGCAGATGCTGATGGA
GCCACAAAGTTTCCAGATGTTGAGAAATTAGAAAAGGGGCTAAATGATCTACAGCCTTGGCCTAATCAAATGGCT
ATAGCATGTGGATCTCGAGCTCATTTAGAAAAAGAATCAATTGCTCAGCGTTCTTACTTCCGTACTCTTCTCATG
TATGGGTTCCACTTTCTGGTGTGGTTCCTTTGTGTCAAAGGAATCAGGGACACACAGTGTGGGTTCAAATTATTT
ACTCGAGAAGCAGCTTCACGGACGTTTTCATCTCTACACGTTGAACGATGGGCATTTGATGTAGAACTACTGTAC
ATAGCACAGTTCTTTAAAATTCCAATAGCAGAAATTGCTGTCAACTGGACAGAAATTGAAGGTTCTAAATTAGTT
CCATTCTGGAGCTGGCTACAAATGGGTAAAGACCTACTTTTTATACGACTTCGATATTTGACTGGTGCCTGGAGG
CTTGAGCAAACTCGGAAAATGAATTAGGTTGTTTGCAGTCTTCAGTTGTGTTCTTATGCTTCAGTGTCACATTTC
ATTTCATTTGAAACTAAAATTTTAAGTAAAGCTGAAATAAACTTCTTGTCATTGAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2112

MAPLLLQLAVLGAALAAAALVLISIVAFTTATKMPALHRHEEEKFFLNÄKGQKETLPSIWDSPTKQLSVVVPSYN
EEKRLPVMMDEALSYLEKRQKRDPAFTYEVIVVDDGSKDQTSKVAFKYCQKYGSDKVRVITLVKNRGKGGAIRMG
IFSSRGEKILMADADGATKFPDVEKLEKGLNDLQPWPNQMAIACGSRAHLEKESIAQRSYFRTLLMYGFHFLVWF
LCVKGIRDTQCGFKLFTREAASRTFSSLHVERWAFDVELLYIAQFFKIPIAEIAVNWTEIEGSKLVPFWSWLQMG
KDLLFIRLRYLTGAWRLEQTRKMN

FIGURE 2113

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GCCTTGCAGAACTTCTACTTGCCTGCCTCCCTGCCTCTGGCCATGGCCTGCCGGTGCCTCAGCTTCCTTCTGATG
GGGACCTTCCTGTCAGTTTCCCAGACAGTCCTGGCCCAGCTGGATGCACTGCTGGTCTTCCCAGGCCAAGTGGCT
CAACTCTCCTGCACGCTCAGCCCCCAGCACGTCACCATCAGGGACTACGGTGTGTCCTGGTACCAGCAGCGGGCA
GGCAGTGCCCCTCGATATCTCCTCTACTACCGCTCGGAGGAGGATCACCACCGGCCTGCTGACATCCCCGATCGA
TTCTCGGCAGCCAAGGATGAGGCCCACAATGCCTGTGTCCTCACCATTAGTCCCGTGCAGCCTGAAGACGACGCG
GATTACTACTGCTCTGTTGGCTACGGCTTTAGTCCCTAGGGGTGGGGTGTGAGATGGGTGCCTCCCCTCTGCCTC
CCATTTCTGCCCCTGACCTTGGGTCCCTTTTAAACTTTCTCTGAGCCTTGCTTCCCCTCTGTAAAATGGGTTAAT
AATATTCAACATGTCAACAAAAA
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FIGURE 2114

MACRCLSFLLMGTFLSVSQTVLAQLDALLVFPGQVAQLSCTLSPQHVTIRDYGVSWYQQRAGSAPRYLLYYRSEE
DHHRPADIPDRFSAAKDEAHNACVLTISPVQPEDDADYYCSVGYGFSP

2325/2682
FIGURE 2115

GTAATCCTACTTTATACATTTTAAACATTATTCTGAGAAGTAGTCCACATGGTTCACTTATTAAGAAGTTCACGG
CACACACAAAAACAAACAAAAAAGAATTAGAAACTCCTGCTCTTATAAATAAACCTTACAAGGGTTAAATTCAGA
GTGATTAACAGTGACCAGACAACCAACTGACTCATCAAAATCCCATGTCACAGCTAACAAGAACTAAGTTTGCAA
TGAATTAAATGAAAATTACCTTTTCCCTATTTGCAGGCTGCTCCATGTCATGTATCTCATTATAGGCTGATAATA
AGTTTGATGAAACCAGCTTATTACACCAAATCAAAGCCAAGATTGAAAGAAAATATAACAAAAGAGAGAATTACT
TATTTTGTCAACCTCCAAACCAGATTCCTATTCTAAAAAATCACAAATAAAGCAAACCTACCATTTGCAGCAAAC
TCTAAACCAAGAAAAATGATCACCTTTGTTGCTTATTTCAGAAAGCCAAGATAAAAAGAGCAGA**ATG**TGCAGAAA
AATATGTGCTGCACTAGACCTCTGGTCCAACCCTCACAATCATCAGTACTGTCTGAGACTTCCAGCTGGTTCTCA
AGGCCTCCGGGACTCAATTTTCAAAGGCATCTGTACCTCCTTGTCCTCTTGTACACTCGTCTTCTACTCTCTTCA
GCCTAGGACTACACCACAGTCATTCCCAGCTCCATACCTCTGCTCTGACCTGCAACAAAATGTATTCCACCTGTC
CTTCAAGTCAGTTGCATGCAACCTTTGTCCTCAT**TGA**GCCCTCCCCTTGTCTGATAAGATTCAGAACCCATTAAT
TTAGCACTTAGTTCCCCAAATATTCCACTACTGTTTCATTCAGAACCCAAGGTTCCTAGAAGGACACAACAGTCA
ACAGTTAACTGAATAATAAGAGTAAGAGAATGCCTCAAACTGCTGCTAAACTCACACTAACCACAAAAAAAACAA
ACTATAATAATTAAGTAATTCCTGCTTTAAAGTGTCTTCTCATTTCCTATAGGCAACACAGCATAAGACTCACAA
CACCATCTCTTCAACCTCTCTAGTTATTTTTCTTCAACCTAACCACCAACCAGACTGACTACTTCTACATTATCT
ACTGAACACATATCTGTTTTACTATTTCCTCCACTAGAATTCTCATTTTCTTCGTATATAAAAAAGTCTTTCAAG
GCACAGCTAAAGAACTACCTCTTCTGGCTGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGTTTGTTT
TGGGGGGTGGGAGTTGATCCTCCCACCCAGTCTGCCCCTGGTCTCTGCCCATCCAATCAGAGCCCACCCTCCTGG
AAGAGACCCCCGTGTTCAGAGTGCTGGCAGCCCTGCACGTGTCCAGGGACACTGCATTTCAAAGAACCACTGAGT
GGGTGAGCTACCTTGGGCAAACCCCCCACTCCTGACTCTGACTGCCACGTGGGTGGCCCGACCTCTGACCTGCTG
TCATCATAGAGGTAGAAAGCAAACAATCTGGGGCTCAGCACACCTGGGGGTGCTCCCACTCATTCAGTGTGTGGG
GCCCCTGAGCAGAGGCTGGGCATTGCCACTAGAACCTGAGCTCCTAGAGAGCAAGGACCTGGGTGGCCTCGCTTA
CTGTTCCAGCCCAGGCCGAGCACAGGGCCTGGCTCGTGGCAAACCTTGAATAAATATTTGTTGGCTGAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2116

MCRKICAALDLWSNPHNHQYCLRLPAGSQGLRDSIFKGICTSLSSCTLVFYSLQPRTTPQSFPAPYLCSDLQQNV
FHLSFKSVACNLCPH

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FIGURE 2117

CAGTGCGGCGGATGTACGGATGATTCAGTGGCTGGCAGGAAGCCCGCCCTGCCCGCCCGCCAGTGTCAGTGGTGT
TGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCGTGTTGAGGAACCCTGGACTCTCAGAGATGG
AATTTCACCGTGTTGCCTAGGCTGGTCTGGAGCTCTTGATCTCAAGCGATCCTCCCTGCCTCGGCCTCCCAACGT
GCTGGGATTATAGGCGTGAGCCACCGCTCCTGGCCAGGGTCTGTTCCTAGTTGCAACAGTTCTTGGAAACCCACT
CGAGAGGGCCACGCCTCCATTCACCAGGCCACGCATCACAAGAGGCAACACCAGGAGCCAAC**ATG**AGCTCGGGGA
CTGAACTGCTGTGGCCCGGAGCAGCGCTGCTGGTGCTGTTGGGGGTGGCAGCCAGTCTGTGTGTGCGCTGCTCAC
GCCCAGGTGCAAAGAGGTCAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGT
CCCGGACCTACTCCTTGGTCGGGCAGGCATGGCCAGGACCCCTGGCGGACATGGCACCCACAAGGAAGGACAAGC
TGTTGCAATTCTACCCCAGCCTGGAGGATCCAGCATCTTCCAGGTACCAGAACTTCAGCAAAGGAAGCAGACACG
GGTCGGAGGAAGCCTACATAGACCCCATTGCCATGGAGTATTACAACTGGGGGCGGTTCTCGAAGCCCCCAGAAG
ATGATGATGCCAATTCCTACGAGAATGTGCTCATTTGCAAGCAGAAAACCACAGAGACAGGTGCCCAGCAGGAGG
GCATAGGTGGCCTCTGCAGAGGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCACTTCTGGTCTCTGTC
CCTCTGCCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAGTGGCGCGAGT
CCAGGAAGGTCATGGGGCAACTCCAGAGAGAAGCATCCCCTGGCCCGGTGGGAAGCCCAGACGAGGAGGACGGGG
AACCGGATTACGTGAATGGGGAGGTGGCAGCCACAGAAGCC**TAG**GGCAGACCAAGAAGAAAGGAGCCAAGGCAAA
GAGGGACCACTGTGCTCATGGACCCATCGCTGCCTTCCAAGGACCATTTCCCAGAGCTACTCAACTTTTAAGCCC
CTGCCATGGTTGCTCCTGGAAGGAGAACCAGCCACCCTGAGGACCACCTGGCCATGCGTGCACAGCCTGGGAAAA
GACAGTTACTCACGGGAGCTGCAGGCCCGTCACCAAGCCCTCTCCCGACCCAGGCTTTGTGGGGCAGGCACCTGG
TACCAAGGGTAACCCGGCTCCTGGTATGGACGGATGCGCAGGATTTAGGATAAGCTGTCACCCAGTCCCCATAAC
AAAACCACTGTCCAACACTGGTATCTGTGTTCTTTTGTGCTATGAATTTGGATTCCTAATTGCTATTGTTGGTTG
CTGGGGTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGGAGCCATATTTAACATTCTGGATTTC
AGAGTAGAGATTTCTGTGTTGTCTCCTAGAAAGCATTACATGTAGTTTATTTCAGCATCCTTGTTGGGTGGGGCC
CTGGCTCTCTTCCCCTTTGGTGGGACCTCCCCTTTCTTTGGGCTTCAGTTCACTCAGGAAGAAATGAGGCTGTCG
CCATCTTTATGTGCTTCCAGTGGAAATGTCACTTGCTACAGACAATAGTGCATGAGAGTCTAGAGAAGTAGTGAC
CAGAACAGGGCAGAGTAGGTCCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCTCTGCAGAGCTGA
TTAAACAGTGTTGTGACTGTCTCATGGGAAGAGCTGGGGCCCAGAGGGACCTTGAGTCAGAAATGTTGCCAGAAA
AAGTATCTCCTCCAACCAAAACATCTCAATAAAACCATTTTAGTTGAAAAAAAAAAAAAAAAAAA

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FIGURE 2118

MSSGTELLWPGAALLVLLGVAASLCVRCSRPGAKRSEKIYQQRSLREDQQSFTGSRTYSLVGQAWPGPLADMAPT
RKDKLLQFYPSLEDPASSRYQNFSKGSRHGSEEAYIDPIAMEYYNWGRFSKPPEDDDANSYENVLICKQKTTETG
AQQEGIGGLCRGDLSLSLALKTGPTSGLCPSASPEEDEESEDYQNSASIHQWRESRKVMGQLQREASPGPVGSPD
EEDGEPDYVNGEVAATEA

FIGURE 2119

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GGTCGCTTGGTGGCTCCGTCTGTTGTCCGTCCGCCCGCGGGTGCCATCATGGCGGACGCGGCCAGTCAGGTGCTC
CTGGGCTCCGGTCTCACCATCCTGTCCCAGCCGCTCATGTACGTGAAAGTGCTCATCCAGGTGGGATATGAGCCT
CTTCCTCCAACAATAGGACGAAATATTTTTGGGCGGCAAGTGTGTCAGCTTCCTGGTCTCTTTAGTTATGCTCAG
CACATTGCCAGTATCGATGGGAGGCGCGGGTTGTTCACAGGCTTAACTCCAAGACTGTGTTCGGGAGTCCTTGGA
ACTGTGGTCCATGGTAAAGTTTTACAGCATTACCAGGAGAGTGACAAGGGTGAGGAGTTAGGACCTGGAAATGTA
CAGAAAGAAGTCTCATCTTCCTTTGACCACGTTATCAAGGAGACAACTCGAGAGATGATCGCTCGTTCTGCTGCT
ACCCTCATCACACATCCCTTCCATGTGATCACTCTGAGATCTATGGTACAGTTCATTGGCAGAGAATCCAAGTAC
TGTGGACTTTGTGATTCCATAATAACCATCTATCGGGAAGAGGGCATTCTAGGATTTTTCGCGGGTCTTGTTCCT
CGCCTTCTAGGTGACATCCTTTCTTTGTGGCTGTGTAACTCACTGGCCTACCTCGTCAATACCTATGCACTGGAC
AGTGGGGTTTCTACCATGAATGAAATGAAGAGTTATTCTCAAGCTGTCACAGGATTTTTTGCGAGTATGTTGACC
TATCCCTTTGTGCTTGTCTCCAATCTTATGGCTGTCAACAACTGTGGTCTTGCTGGTGGATGCCCTCCTTACTCC
CCAATATATACGTCTTGGATAGACTGTTGGTGCATGCTACAAAAAGAGGGGAATATGAGCCGAGGAAATAGCTTA
TTTTTCCGGAAGGTCCCCTTTGGGAAGACTTATTGTTGTGACCTGAAAATGTTAATTTGAAGATGTGGGGCAGGG
ACAGTGACATTTCTGTAGTCCCAGATGCACAGAATTATGGGAGAGAATGTTGATTTCTATACAGTGTGGCGCGCT
TTTTTAATAATCATTTAATCTTGGGAAAATTAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2120

MADAASQVLLGSGLTILSQPLMYVKVLIQVGYEPLPPTIGRNIFGRQVCQLPGLFSYAQHIASIDGRRGLFTGLT
PRLCSGVLGTVVHGKVLQHYQESDKGEELGPGNVQKEVSSSFDHVIKETTREMIARSAATLITHPFHVITLRSMV
QFIGRESKYCGLCDSIITIYREEGILGFFAGLVPRLLGDILSLWLCNSLAYLVNTYALDSGVSTMNEMKSYSQAV
TGFFASMLTYPFVLVSNLMAVNNCGLAGGCPPYSPIYTSWIDCWCMLQKEGNMSRGNSLFFRKVPFGKTYCCDLK
MLI

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FIGURE 2121

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AGCTGCGGCGGCCGCAGGTTCCAAAGCGGGTCCGAGCCGCCGCCGCGCGCGCGCCGCGCACTGCAGCCCCAGGCC
CCGGCCCCCCACCCACGTCTGCGTTGCTGCCCCGCCTGGGCCAGGCCCCAAAGGCAAGGACAAAGCAGCTGTCAG
GGAACCTCCGCCGGAGTCGAATTTACGTGCAGCTGCCGGCAACCACAGGTTCCAAGATGGTTTGCGGGGGGCTTCG
CGTGTTCCAAGAACTGCCTGTGCGCCCTCAACCTGCTTTACACCTTGGTTAGTCTGCTGCTAATTGGAATTGCTG
CGTGGGGCATTGGCTTCGGGCTGATTTCCAGTCTCCGAGTGGTCGGCGTGGTCATTGCAGTGGGCATCTTCTTGT
TCCTGATTGCTTTAGTGGGTCTGATTGGAGCTGTAAAACATCATCAGGTGTTGCTATTTTTTTATATGATTATTC
TGTTACTTGTATTTATTGTTCAGTTTTCTGTATCTTGCGCTTGTTTAGCCCTGAACCAGGAGCAACAGGGTCAGC
TTCTGGAGGTTGGTTGGAACAATACGGCAAGTGCTCGAAATGACATCCAGAGAAATCTAAACTGCTGTGGGTTCC
GAAGTGTTAACCCAAATGACACCTGTCTGGCTAGCTGTGTTAAAAGTGACCACTCGTGCTCGCCATGTGCTCCAA
TCATAGGAGAATATGCTGGAGAGGTTTTGAGATTTGTTGGTGGCATTGGCCTGTTCTTCAGTTTTACAGAGATCC
TGGGTGTTTGGCTGACCTACAGATACAGGAACCAGAAAGACCCCCGCGCGAATCCTAGTGCATTCCTTTGATGAG
AAAACAAGGAAGATTTCCTTTCGTATTATGATCTTGTTCACTTTCTGTAATTTTCTGTTAAGCTCCATTTGCCAG
.TTTAAGGAAGGAAACACTATCTGGAAAAGTACCTTATTGATAGTGGAATTATATATTTTTACTCTATGTTTCTCT
ACATGTTTTTTTCTTTCCGTTGCTGAAAAATATTTGAAACTTGTGGTCTCTGAAGCTCGGTGGCACCTGGAATTT
ACTGTATTCATTGTCGGGCACTGTCCACTGTGGCCTTTCTTAGCATTTTTACCTGCAGAAAAACTTTGTATGGTA
CCACTGTGTTGGTTATATGGTGAATCTGAACGTACATCTCACTGGTATAATTATATGTAGCACTGTGCTGTGTAG
ATAGTTCCTACTGGAAAAAGAGTGGAAATTTATTAAAAATCAGAAAGTATGAGATCCTGTTATGTTAAGGGAAATC
CAAATTCCCAATTTTTTTTGGTCTTTTTAGGAAAGATGTGTTGTGGTAAAAAGTGTTAGTATAAAAATGATAATT
TACTTGTAGTCTTTTATGATTACACCAATGTATTCTAGAAATAGTTATGTCTTAGGAAATTGTGGTTTAATTTTT
GACTTTTACAGGTAAGTGCAAAGGAGAAGTGGTTTCATGAAATGTTCTAATGTATAATAACATTTACCTTCAGCC
TCCATCAGAATGGAACGAGTTTTGAGTAATCAGGAAGTATATCTATATGATCTTGATATTGTTTTATAATAATTT
GAAGTCTAAAAGACTGCATTTTTAAACAAGTTAGTATTAATGCGTTGGCCCACGTAGCAAAAAGATATTTGATTA
TCTTAAAAATTGTTAAATACCGTTTTCATGAAAGTTCTCAGTATTGTAACAGCAACTTGTCAAACCTAAGCATAT
TTGAATATGATCTCCCATAATTTGAAATTGAAATCGTATTGTGTGGCTCTGTATATTCTGTTAAAAAATTAAAGG
ACAGAAACCTTTCTTTGTGTATGCATGTTTGAATTAAAAGAAAGTAATGGAAGAATTGATCGATGAAAAAAAAAA
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FIGURE 2122

MVCGGFACSKNCLCALNLLYTLVSLLLIGIAAWGIGFGLISSLRVVGVVIAVGIFLFLIALVGLIGAVKHHQVLL
FFYMIILLLVFIVQFSVSCACLALNQEQQGQLLEVGWNNTASARNDIQRNLNCCGFRSVNPNDTCLASCVKSDHS
CSPCAPIIGEYAGEVLRFVGGIGLFFSFTEILGVWLTYRYRNQKDPRANPSAFL

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FIGURE 2123

GGCACGAGGAAAATCAAGATAAAA**ATG**TTCACAATTAAGCTCCTTCTTTTTATTGTTCCTCTAGTTATTTCCTCC
AGAATTGATCAAGACAATTCATCATTTGATTCTCTATCTCCAGAGCCAAAATCAAGATTTGCTATGTTAGACGAT
GTAAAAATTTTAGCCAATGGCCTCCTTCAGTTGGGACATGGTCTTAAAGACTTTGTCCATAAGACGAAGGGCCAA
ATTAATGACATATTTCAAAAACTCAACATATTTGATCAGTCTTTTTATGATCTATCGCTGCAAACCAGTGAAATC
AAAGAAGAAGAAAAGGAACTGAGAAGAACTACATATAAACTACAAGTCAAAAATGAAGAGGTAAAGAATATGTCA
CTTGAACTCAACTCAAAACTTGAAAGCCTCCTAGAAGAAAAAATTCTACTTCAACAAAAAGTGAAATATTTAGAA
GAGCAACTAACTAACTTAATTCAAAATCAACCTGAAACTCCAGAACACCCAGAAGTAACTTCACTTAAAACTTTT
GTAGAAAAACAAGATAATAGCATCAAAGACCTTCTCCAGACCGTGGAAGACCAATATAAACAATTAAACCAACAG
CATAGTCAAATAAAAGAAATAGAAAATCAGCTCAGAAGGACTAGTATTCAAGAACCCACAGAAATTTCTCTATCT
TCCAAGCCAAGAGCACCAAGAACTACTCCCTTTCTTCAGTTGAATGAAATAAGAAATGTAAAACATGATGGCATT
CCTGCTGAATGTACCACCATTTATAACAGAGGTGAACATACAAGTGGCATGTATGCCATCAGACCCAGCAACTCT
CAAGTTTTTCATGTCTACTGTGATGTTATATCAGGTAGTCCATGGACATTAATTCAACATCGAATAGATGGATCA
CAAAACTTCAATGAAACGTGGGAGAACTACAAATATGGTTTTGGGAGGCTTGATGGAGAATTTTGGTTGGGCCTA
GAGAAGATATACTCCATAGTGAAGCAATCTAATTATGTTTTACGAATTGAGTTGGAAGACTGGAAAGACAACAAA
CATTATATTGAATATTCTTTTTACTTGGGAAATCACGAAACCAACTATACGCTACATCTAGTTGCGATTACTGGC
AATGTCCCCAATGCAATCCCGGAAAACAAAGATTTGGTGTTTTCTACTTGGGATCACAAAGCAAAAGGACACTTC
AACTGTCCAGAGGGGTTATTCAGGAGGCTGGTGGTGGCATGATGAGTGTGGAGAAAACAACCTAAATGGTAAATAT
AACAAACCAAGAGCAAAATCTAAGCCAGAGAGGAGAAGAGGATTATCTTGGAAGTCTCAAAATGGAAGGTTATAC
TCTATAAAATCAACCAAAATGTTGATCCATCCAACAGATTCAGAAAGCTTTGAA**TGA**ACTGAGGCAAATTTAAAA
GGCAATAATTTAAACATTAACCTCATTCCAAGTTAATGTGGTCTAATAATCTGGTATTAAATCCTTAAGAG

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FIGURE 2124

MFTIKLLLFIVPLVISSRIDQDNSSFDSLSPEPKSRFAMLDDVKILANGLLQLGHGLKDFVHKTKGQINDIFQKL
NIFDQSFYDLSLQTSEIKEEEKELRRTTYKLQVKNEEVKNMSLELNSKLESLLEEKILLQQKVKYLEEQLTNLIQ
NQPETPEHPEVTSLKTFVEKQDNSIKDLLQTVEDQYKQLNQQHSQIKEIENQLRRTSIQEPTEISLSSKPRAPRT
TPFLQLNEIRNVKHDGIPAECTTIYNRGEHTSGMYAIRPSNSQVFHVYCDVISGSPWTLIQHRIDGSQNFNETWE
NYKYGFGRLDGEFWLGLEKIYSIVKQSNYVLRIELEDWKDNKHYIEYSFYLGNHETNYTLHLVAITGNVPNAIPE
NKDLVFSTWDHKAKGHFNCPEGYSGGWWWHDECGENNLNGKYNKPRAKSKPERRRGLSWKSQNGRLYSIKSTKML
IHPTDSESFE   .

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FIGURE 2125

TGGTAGTAAGTTCTATAGAGCAAAAACAAGTTTAAAGAAGGAGGTTGGGGGGAGGGGGCG**ATG**GCGAAGCTCCGG
GTGGCTTACGAGTACACGGAAGCCGAGGACAAGAGCATCCGGCTCGGCTTGTTTCTCATCATCTCCGGCGTCGTG
TCGCTCTTCATCTTCGGCTTCTGCTGGCTGAGTCCCGCGCTGCAGGATCTGCAAGCCACGGAGGCCAATTGCACG
GTGCTGTCGGTGCAGCAGATCGGCGAGGTGTTCGAGTGCACCTTCACCTGTGGCGCCGACTGCAGGGGCACCTCG
CAGTACCCCTGCGTCCAGGTCTACGTGAACAACTCTGAGTCCAACTCTAGGGCGCTGCTGCACAGCGACGAGCAC
CAGCTCCTGACCAACCCCAAGTGCTCCTATATCCCTCCCTGTAAGAGAGAAAATCAGAAGAATTTGGAAAGTGTC
ATGAATTGGCAACAGTACTGGAAAGATGAGATTGGTTCCCAGCCATTTACTTGCTATTTTAATCAACATCAAAGA
CCAGATGATGTGCTTCTGCATCGCACTCATGATGAGATTGTCCTCCTGCATTGCTTCCTCTGGCCCCTGGTGACA
TTTGTGGTGGGCGTTCTCATTGTGGTCCTGACCATCTGTGCCAAGAGCTTGGCGGTCAAGGCGGAAGCCATGAAG
AAGCGCAAGTTCTCT**TAA**AGGGGAAGGAGGCTTGTAGAAAGCAAAGTACAGAAGCTGTACTCATCGGCACGCGTC
CACCTGCGGAACCTGTGTTTCCTGGCGCAGGAGATGGACAGGGCCACGACAGGGCTCTGAGAGGCTCATCCCTCA
GTGGCAACAGAAACAGGCACAACTGGAAGACTTGGAACCTCAAAGCTTGTATTCCATCTGCTGTAGCAATGGCTA
AAGGGTCAAGATCTTAGCTGTATGGAGTAACTATTTCAGAAAACCCTATAAGAAGTTCATTTTCTTTCAAAAGTA
ACAGTATATTATTTGTACAGTGTAGTATACAAACCATTATGATTTATGCTACTTAAAAATATTAAAATAGAGTGG
TCTGTGTTATTTTCTATTTCCTTTTTTATGCTTAGAACACCAGGGTTTAAAAAAAAAAAAAGGTGAGGACATCT
GGGTCTCATTTGCTTCTGCTAGGTTAAACTTTTACTTGACAACAAGGATTCCTGCT

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FIGURE 2126

MAKLRVAYEYTEAEDKSIRLGLFLIISGVVSLFIFGFCWLSPALQDLQATEANCTVLSVQQIGEVFECTFTCGAD
CRGTSQYPCVQVYVNNSESNSRALLHSDEHQLLTNPKCSYIPPCKRENQKNLESVMNWQQYWKDEIGSQPFTCYF
NQHQRPDDVLLHRTHDEIVLLHCFLWPLVTFVVGVLIVVLTICAKSLAVKAEAMKKRKFS

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FIGURE 2127

ACTGTCTGCACAGACAGCACC**ATG**TCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGG
GCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCGGGCCCACCCAGGTCCCCTGGTGAAATCAGAAGAG
ACAGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAAGGGAAGTTTAAGGAC
ACTTTGCGCCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCATGATGCAAGAC
CTTGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTG
GACATCGTCATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTCTGGCAGGAGAG
AGCGTGACCTTGTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAA
CGTAGGTTCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCACGGA
GGAACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACTCGAGTGACCCACTGCTTGTT
TCTGTCACAGGAAACCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCGAAACCGGTAACCCCATACAC
CTGCATGTTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCCTCTTCTTTCTCCTTCATCGCTGG
TGCTGCAACAAAAAAAATGCTGTTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGGGAGGACTCT
GATGAACAAGACCCTCAGGAGGTGACATATGCACAGTTGAATCACTGCGTTTTCACACAGAGAAAAATCACTCAC
CCTTCTCAGAGGCCCAAGACACCCCCAACAGATATCATCGTGTACACGGAACTTCCAAATGCTGAGCCC**TGA**TCC
AAAGTTGTCTCCTGCCCATGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGACAACAGCCCTGTCTCA
AAACTGGGTTGCCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCATCTTAGGGCATCGCTCT
TCCTCACACCACAAATCTGAACGTGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAGA
AAACACACTCCTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCCACCTCTCCAACCTAACTGGCTT
ACTTCCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCCCTCTTAA
CACGGCACTTAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCTCAGACTAGCTTTCAGCCTTC
TGTCAGCAGTAAAACTTATATATTTTTTAAAATAATTTCAATGTAGTTTTCCCTCCTTCAAATAAACATGTCTGC
CCTCAAAAAAAA

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FIGURE 2128

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLRAHPGPLVKSEETVILQCWSDVRFEHFLLHREGKFKDTLRLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTEPSSETGNPIHLHVLIGTSVVIILFILLLFFLLHRWCCNKKNAVVMDQEPAGNRTVNREDSDEQDPQE
VTYAQLNHCVFTQRKITHPSQRPKTPPTDIIVYTELPNAEP

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FIGURE 2129

GGGACCGCTATAAGGCCAGTCGGACTGCGACATAGCCCATCCCCTCGACCGCTCGCGTCGCATTTGGCCGCCTCC
CTACCGCTCCAAGCCCAGCCCTCAGCC**ATG**GCATGCCCCCTGGATCAGGCCATTGGCCTCCTCGTGGCCATCTTC
CACAAGTACTCCGGCAGGGAGGGTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGCTGATCCAGAAGGAG
CTCACCATTGGCTCGAAGCTGCAGGATGCTGAAATTGCAAGGCTGATGGAAGACTTGGACCGGAACAAGGACCAG
GAGGTGAACTTCCAGGAGTATGTCACCTTCCTGGGGGCCTTGGCTTTGATCTACAATGAAGCCCTCAAGGGC**TGA**

AAATAAATAGGGAAGATGGAGACACCTCTGGGGGTCCTCTCTGAGTCAAATCCAGTGGTGGGTAATTGTACAATA
AATTTTTTTTGGTCAAATTT

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FIGURE 2130

MACPLDQAIGLLVAIFHKYSGREGDKHTLSKKELKELIQKELTIGSKLQDAEIARLMEDLDRNKDQEVNFQEYVT
FLGALALIYNEALKG

FIGURE 2131A

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GAGCAGATTCCTACTGTTCTTAAAGGACAGTAATGCCTTTTGAGTCTGGTCTGAAGAACATAACAGGTCTGTGAT
CAGAAGTAGGTTGCATCTCTCTCAACTTTAATTTCCTTAGCTATACCTGTAGGGATGACTTAAGCCTAGGGGAGC
TCCTATATTTGGGAAGCTTGTGCACAGGGAAGCCTTAAATGATGGTGCCTGCAGATTGGATCTAGTAGAAATTAG
GTCCTTGGGCATGGATGCTTGGGGAACCTCTCAGTGACCTCAGGTGAACTTGTTGCTCGTAGAGCCAAGAGGCGA
AGTTAATTCAGGCCTTCCTTTTGACCACTGCCCCCTCTTCCTAGGCCTTGGCCCCTCCACCAGAGGAAGGTGCTG
CCACGTGTCTGCTCCTTCTGAACCTCCAGGTTTCTGCTACGTTGCCCC**ATG**GAGGACACACCCCCCTCACTCAGC
TGCTCCGACTGTCAGCGCCACTTTCCCAGCCTCCCAGAGCTCTCTCGGCACCGAGAACTGCTCCATCCATCTCCC
AACCAGGACAGTGAGGAGGCTGACAGCATCCCTCGGCCCTACCGTTGTCAGCAGTGTGGGCGGGGCTACCGTCAC
CCCGGGAGCCTGGTTAACCATCGTCGGACCCACGAGACTGGCCTTTTCCCCTGTACCACCTGTGGCAAGGACTTC
TCCAATCCCATGGCTCTCAAGAGCCATATGAGGACACATGCTCCTGAGGGCCGCCGCAGGCACAGGCCCCCACGC
CCCAAGGAAGCCACTCCACACCTCCAGGGTGAGACGGTGTCCACTGACTCCTGGGGCCAAAGGCTTGGCTCTAGT
GAAGGCTGGGAAAACCAGACAAAACATACAGAAGAGACACCTGACTGTGAATCTGTACCTGACCCCAGGGCAGCT
TCGGGTACGTGGGAAGATCTGCCCACCAGACAAAGAGAAGGCTTGGCAAGCCACCCAGGTCCTGAGGATGGTGCA
GACGGCTGGGGACCCTCCACTAACTCTGCCAGAGCCCCTCCTCTCCCCATCCCAGCCAGCAGCCTTCTTAGCAAC
TTGGAACAGTATCTGGCTGAATCAGTAGTGAACTTCACAGGGGGCCAGGAGCCCACCCAGTCCCCTCCTGCTGAG
GAGGAGCGGCGGTACAAATGTAGTCAGTGTGGCAAGACCTACAAGCACGCCGGGAGCCTCACCAACCACCGCCAG
AGCCACACGCTGGGCATCTACCCCTGTGCCATCTGTTTCAAGGAGTTCTCTAACCTCATGGCTCTGAAGAACCAC
TCTCGACTGCATGCCCAGTATCGGCCTTACCACTGTCCCCACTGCCCCCGTGTCTTCCGGCTCCCCCGGGAGCTG
CTGGAACACCAGCAGTCCCATGAGGGTGAAAGGCAGGAGCCACGCTGGGAGGAGAAAGGGATGCCCACCACCAAT
GGGCACACAGATGAGAGCAGCCAGGACCAGCTCCCCAGTGCACAGATGCTGAATGGCTCTGCGGAGCTCAGCACC
TCTGGGGAGCTGGAGGACAGTGGCCTGGAGGAATACCGGCCTTTCCGCTGTGGGGACTGTGGCCGTACTTACCGC
CATGCTGGGAGCCTCATCAACCATCGAAAGAGCCACCAGACAGGTGTCTACCCCTGCTCACTCTGTTCTAAGCAG
CTGTTCAATGCGGCTGCCCTCAAAAACCATGTGCGGGCTCATCACAGGCCCAGGCAAGGAGTTGGGGAAAATGGG
CAGCCATCAGTCCCACCAGCTCCCCTGCTGCTGGCTGAGACCACCCACAAAGAGGAAGAGGACCCCACCACCACC
CTGGACCATCGGCCCTATAAGTGCAGTGAGTGTGGTCGTGCTTACCGCCACCGGGGGAGCCTGGTGAACCATCGC
CACAGCCATCGGACTGGAGAGTACCAGTGCTCACTCTGTCCCCGCAAGTACCCCAATCTCATGGCCCTGCGCAAC
CACGTGCGGGTACATTGCAAGGCTGCTCGCCGAAGTGCAGACATCGGGGCTGAGGGTGCCCCAGCCACCTCAAG
GTAGAACTCCCGCCTGACCCAGTGGAGGCAGAGGCAGCCCCGCACACAGATCAGGACCATGTGTGCAAACATGAA
GAAGAGGCCACGGACATCACCCCAGCAGCAGACAAGACAGCAGCACATATCTGTAGCATCTGTGGGCTGCTCTTT
GAAGACGCTGAGAGCCTTGAACGTCATGGCCTGACTCATGGGGCAGGGGAAAAGGAAAATAGCAGAACAGAGACC
ACAATGTCACCTCCTAGGGCCTTTGCCTGCCGAGACTGTGGAAAGAGCTATCGCCACTCAGGCAGCCTTATCAAC
CACAGGCAGACCCACCAGACAGGAGACTTCAGTTGTGGGGCCTGTGCCAAGCACTTCCACACCATGGCTGCCATG
AAGAACCACTTGCGCCGGCACAGTCGGCGGCGGAGCAGGCGGCATCGGAAGCGGGCTGGCGGTGCCAGCGGTGGG
AGAGAAGCCAAACTCCTGGCAGCGGAGAGCTGGACCCGGGAGCTAGAAGACAATGAAGGCCTGGAGTCTCCCCAA
GACCCTTCAGGGGAAAGTCCTCATGGGGCTGAAGGCAACCTGGAAAGTGATGGGGACTGTTTGCAGGCTGAATCT
GAAGGGGACAAATGTGGGCTTGAGAGGGATGAGACCCATTTCCAGGGTGATAAAGAGAGCGGAGGCACTGGGGAA
GGACTGGAAAGGAAGGATGCCAGTTTACTTGACAACTTGGACATCCCAGGTGAGGAAGGTGGTGGCACTCACTTC
TGCGATAGCCTCACTGGGGTGGATGAAGACCAGAAGCCAGCCACTGGCCAACCCAACTCCTCTTCCCACTCTGCC
AATGCTGTCACTGGCTGGCAGGCTGGGGCCGCTCACACATGCTCTGACTGTGGGCATTCTTTCCCCCATGCCACT
GGCCTGCTGAGCCACAGGCCCTGCCACCCACCAGGCATCTATCAGTGCTCCCTCTGCCCGAAGGAGTTTGACTCT
CTGCCTGCCCTCCGCAGCCACTTCCAGAACCATAGGCCTGGGGAGGCGACCTCAGCACAGCCTTTCCTCTGCTGC
CTCTGTGGCATGATCTTCCCTGGGCGGGCTGGCTACAGGCTTCACCGGCGCCAGGCCCACAGCTCCTCTGGCATG
ACTGAGGGCTCAGAGGAGGAGGGGGAAGAGGAAGGAGTGGCAGAGGCAGCCCCTGCACGCAGTCCACCACTGCAG
CTCTCGGAAGCAGAGCTGCTGAATCAGCTGCAGCGGGAGGTGGAAGCGCTGGACAGTGCAGGGTATGGGCACATC
TGTGGCTGCTGTGGTCAGACCTACGATGACCTGGGGAGCCTGGAGCGTCACCACCAAAGTCAGAGTTCTGGGACT
ACTGCAGACAAGGCTCCCAGCCCCTTGGGAGTGGCAGGTGATGCCATGGAGATGGTCGTGGACAGTGTCTTGGAG
GACATAGTGAATTCTGTCTCTGGAGAGGGTGGAGATGCCAAGTCTCAAGAGGGAGCAGGCACCCCTTGGGAGAC
AGCCTCTGCATCCAGGGTGGGGAAAGTTTGTTGGAGGCTCAGCCCCGCCCCTTCCGCTGCAACCAGTGTGGCAAG
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FIGURE 2131B

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ACCTATCGCCATGGGGGCAGCCTGGTGAACCACCGCAAGATCCACCAGACTGGAGACTTTCTCTGCCCTGTCTGC
TCCCGCTGCTACCCCAACCTGGCTGCCTACCGTAATCATCTGCGGAACCACCCTCGCTGCAAAGGCTCTGAGCCC
CAGGTTGGGCCCATCCCAGAGGCAGCAGGTAGCAGTGAGCTGCAGGTTGGGCCCATCCCAGAAGGAGGCAGCAAC
AAGCCCCAGCACATGGCAGAGGAGGGGCCGGGGCAAGCAGAAGTCGAGAAGCTCCAGGAAGAACTTAAAGTGGAG
CCCCTGGAGGAAGTGGCCAGGGTGAAAGAAGAGGTGTGGGAGGAGACCACTGTGAAGGGGGAGGAGATAGAGCCC
AGGCTGGAGACTGCCGAGAAGGGCTGCCAGACTGAAGCCAGCTCTGAGCGGCCCTTCAGCTGCGAGGTGTGTGGC
CGATCCTACAAGCACGCCGGCAGCCTCATCAACCACCGGCAGAGCCACCAGACCGGCCACTTTGGCTGTCAGGCC
TGCTCCAAGGGCTTCTCAAACCTCATGTCCCTCAAGAACCACCGGCGCATCCATGCAGATCCCCGACGTTTCCGC
TGCAGCGAGTGTGGGAAGGCCTTCCGCCTGCGGAAACAGCTGGCCAGCCACCAGCGGGTCCACATGGAACGGCGT
GGGGGTGGGGGCACCCGAAAGGCGACTCGGGAAGATCGGCCCTTCCGCTGTGGGCAGTGCGGGCGGACCTATCGC
CACGCCGGCAGCCTCCTGAACCACCGGCGCAGCCACGAGACGGGCCAGTACAGCTGCCCCACCTGCCCCAAGACC
TACTCCAACCGCATGGCCCTGAAGGACCACCAGAGGCTGCACTCAGAGAATCGGCGGCGACGGGCTGGACGGTCC
AGGCGCACAGCTGTGCGTTGCGCCCTCTGTGGCCGCAGCTTCCCTGGCCGGGGATCTTTGGAGCGGCACCTGCGG
GAGCATGAGGAGACAGAAAGGGAGCCAGCCAATGGCCAGGGAGGCCTGGATGGCACAGCGGCCAGTGAGGCGAAC
CTGACTGGCAGCCAGGGACTAGAGACCCAATTGGGTGGTGCTGAGCCAGTACCCCACTTGGAGGATGGAGTCCCA
AGGCCAGGGGAGCGCAGTCAGAGCCCCATCAGGGCAGCAAGCTCAGAAGCCCCAGAGCCACTGTCCTGGGGTGCA
GGGAAGGCAGGTGGGTGGCCGGTAGGTGGGGGACTGGGGAATCATAGTGGAGGCTGGGTTCCTCAGTTCCTAACT
AGGTCAGAGGAGCCAGAGGACAGTGTCCACAGGAGTCCTTGCCACGCTGGTGACTGCCAGCTCAATGGACCTACT
CTGAGTCACATGGATAGCTGGGACAACAGAGACAACAGCTCTCAGCTGCAGCCAGGGAGCCACTCCTCTTGCAGC
CAGTGTGGCAAGACTTACTGCCAGTCAGGCAGCCTCTTGAACCACAACACCAACAAGACAGACCGACACTATTGC
CTGCTCTGCTCCAAGGAGTTCTTAAATCCTGTGGCCACAAAGAGCCACAGCCACAACCACATAGACGCCCAGACC
TTTGCCTGTCCTGACTGTGGCAAAGCCTTTGAGTCCCACCAGGAACTGGCCAGCCACCTGCAGGCTCATGCCCGG
GGCCACAGCCAGGTGCCAGCCCAGATGGAGGAGGCCAGAGATCCCAAAGCCGGGACTGGGGAGGACCAGGTGGTT
CTCCCTGGTCAAGGGAAAGCCCAGGAGGCCCCATCAGAAACCCCCAGAGGCCCAGGAGAGAGTGTGGAGAGAGCC
AGGGGAGGACAAGCGGTGACGTCCATGGCGGCTGAGGACAAGGAGCGGCCCTTCCGCTGCACCCAGTGCGGGCGC
TCCTACCGCCATGCTGGCAGCCTGCTGAACCACCAGAAGGCCCACACCACAGGGTTGTACCCGTGCTCCCTCTGT
CCCAAACTTCTCCCTAACCTGCTGTCTCTTAAGAACCACAGCAGGACCCACACGGACCCCAAGCGCCACTGCTGC
AGCATCTGTGGCAAGGCCTTTCGGACAGCTGCCCGGCTGGAGGGCCACGGGCGGGTCCATGCACCCCGGGAGGGG
CCTTTCACCTGCCCCCATTGTCCCCGCCACTTCCGCCGCCGAATCAGCTTCGTGCAGCACCAGCAGCAGCACCAG
GAGGAGTGGACGGTGGCCGGCTCCGGTAGGGGGCATGAAGGGTCCCAGGAGGAGGTGGGCACACAGTGGAGGGGG
AAGTCCAGCCCCAAAGTCGGTGGGGGAGCAAGGAGTGAGAGGAGAGAGCCCCGGGGGATTC**TAA**GAGGTGGGTGGG
GGCTTGGCTATGGGGTGAGAGAAGTAGCTTGAGGATGTGCTGAGCTGAGCACCCGCAAGTCAGGTATAACAAATA
GCAGGGTGGGTTGGGCAGCACGTGGGGGCGTGGTCAGGCCGAGGCTGCTACCTGGGCTCCTCCATTACACTGTAG
CCAGAATGGAATGGTCTTTCTGTTCAGGGGAAGGTCACTGGGTACCCCCTGGCTGCTGTGTCTGGAAACCCTCCT
GAGTCAGCCAGTAAAGTAATGACTTCCAGAGAAAAAGAGGAAGCCATTGGTTTGGTCTAGGTTCCATTCTTTCCT
GGAGCAGGCCGGGTGCCAGGGAACAAGGGATGGGGCATGGGCTCCACGGCTTCCCTGCTGACTTGGCCACGGAAA
CTGGTTCACTGGTTGGCACCCTACTCCCTGTCCCTCTTTCCCTGCGCCTTGTCTCTGCTGCTCCTCCTTGGAA
ACTAGACCTCTGGTCCTTCCCTGTCAGTGTTGCTCCCATCTCTTCTCTAACCTTTATTCAGCCCCTTTTCCCTCT
GCTGCCAACGGCCTTTTTAGGATCCAACCAAACCACCCTTTCTACCTGCGCACCCTGCCACCCTCTGCACACCTT
TAACTGGAGGACTGAGTCACAGATAATTGTTTCCTTGAAGTCCAGGCCCAGCTGCAGCAACAACAGTCATTAGCC
CGTGTCACATCCCTGATCAGAGGGCATCTCCGTGGGGAATCGCCTCCACCCAGCACTGCTGGAAGCCGCGGCTGC
CAGGGAGTGGGGCGGCCGGTTCCCTCAGCAGGACCTGGGCTGGCCTCTCCACCTCCCCTAGTAGAGGCGGACCCA
TTCCATCTAGTGGCCACCGAGGGTGGGTGGCCCTGAGATGGTGGGCCCTTGACAGGCCTTGTCAGAGCAGAGGGC
AGGTGGGAGTCACCTGAAAGCTGAAGGAATGGCTTTAAGGATAGAAGATTTCTCATGACCTCAAGGGATATGAGG
GAGGAGCCAGTTTGCCAGGGCTGGGAAAATAATTAGGAGGCCTAGAATCCCTGTTCTCATCTGGGCCTCCGGGGC
CAGGGGCAGGGGAATGGCCTGCAGGGCTGGGAGGGGGTACACGCTGTGCGGGGTCTGCCCCTCAGTTGGTGACCT
CCTCTCTCTCTCCCCCCAGGAGCCCCAGTGGCACCAGTGACGGGCAGAGGGGACTTGCCATTGCCCCCTCCACCC
ACCCCCACGACCCCACTCCTGGATCCTTCACCCCAGTGGCCTGCAGACCTCAGCTTCTCCCTCTGAACTTCAAGT
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FIGURE 2131C

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CTCCAAAGATCAGAATCTGGGGGAGGGAGCGCGTGCAGGGAGGGGCTTGATCTCCACATTTTCTCAGGAGTAGTT
CGGGCATCCCCATATCTTCTCCTCTCCCCTTGTGAAGAGGACCCAGATCTGGCTTCTTTCCCAAGGAGGGGGTGG
GGTGTTCCTCGCGTCCCTGTCCTTGAAGGACCTCCTTCCCCCAGCCTCATCACCGTGCTCTTCTCAGCGCCACCC
TCAGCAGCCAGATTGCAACACCAGGGAGAGGTGGATGCAGAGCCCCACCGGTGGGAAAGTTGCCTGTGGAAGGGA
GCCTTTTGCTACAATTTGTAACTTATTTTCTAAAGTCTATTTTGTAACAATTTATTTAAGTTTAAAAAAAGGAAA
ACTGCTGCCCCCCAAAAAAAGAAATTTTC
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FIGURE 2132

MEDTPPSLSCSDCQRHFPSLPELSRHRELLHPSPNQDSEEADSIPRPYRCQQCGRGYRHPGSLVNHRRTHETGLF
PCTTCGKDFSNPMALKSHMRTHAPEGRRRHRPPRPKEATPHLQGETVSTDSWGQRLGSSEGWENQTKHTEETPDC
ESVPDPRAASGTWEDLPTRQREGLASHPGPEDGADGWGPSTNSARAPPLPIPASSLLSNLEQYLAESVVNFTGGQ
EPTQSPPAEEERRYKCSQCGKTYKHAGSLTNHRQSHTLGIYPCAICFKEFSNLMALKNHSRLHAQYRPYHCPHCP
RVFRLPRELLEHQQSHEGERQEPRWEEKGMPTTNGHTDESSQDQLPSAQMLNGSAELSTSGELEDSGLEEYRPFR
CGDCGRTYRHAGSLINHRKSHQTGVYPCSLCSKQLFNAAALKNHVRAHHRPRQGVGENGQPSVPPAPLLLAETTH
KEEEDPTTTLDHRPYKCSECGRAYRHRGSLVNHRHSHRTGEYQCSLCPRKYPNLMALRNHVRVHCKAARRSADIG
AEGAPSHLKVELPPDPVEAEAAPHTDQDHVCKHEEEATDITPAADKTAAHICSICGLLFEDAESLERHGLTHGAG
EKENSRTETTMSPPRAFACRDCGKSYRHSGSLINHRQTHQTGDFSCGACAKHFHTMAAMKNHLRRHSRRRSRRHR
KRAGGASGGREAKLLAAESWTRELEDNEGLESPQDPSGESPHGAEGNLESDGDCLQAESEGDKCGLERDETHFQG
DKESGGTGEGLERKDASLLDNLDIPGEEGGGTHFCDSLTGVDEDQKPATGQPNSSSHSANAVTGWQAGAAHTCSD
CGHSFPHATGLLSHRPCHPPGIYQCSLCPKEFDSLPALRSHFQNHRPGEATSAQPFLCCLCGMIFPGRAGYRLHR
RQAHSSSGMTEGSEEEGEEEGVAEAAPARSPPLQLSEAELLNQLQREVEALDSAGYGHICGCCGQTYDDLGSLER
HHQSQSSGTTADKAPSPLGVAGDAMEMVVDSVLEDIVNSVSGEGGDAKSQEGAGTPLGDSLCIQGGESLLEAQPR
PFRCNQCGKTYRHGGSLVNHRKIHQTGDFLCPVCSRCYPNLAAYRNHLRNHPRCKGSEPQVGPIPEAAGSSELQV
GPIPEGGSNKPQHMAEEGPGQAEVEKLQEELKVEPLEEVARVKEEVWEETTVKGEEIEPRLETAEKGCQTEASSE
RPFSCEVCGRSYKHAGSLINHRQSHQTGHFGCQACSKGFSNLMSLKNHRRIHADPRRFRCSECGKAFRLRKQLAS
HQRVHMERRGGGGTRKATREDRPFRCGQCGRTYRHAGSLLNHRRSHETGQYSCPTCPKTYSNRMALKDHQRLHSE
NRRRRAGRSRRTAVRCALCGRSFPGRGSLERHLREHEETEREPANGQGGLDGTAASEANLTGSQGLETQLGGAEP
VPHLEDGVPRPGERSQSPIRAASSEAPEPLSWGAGKAGGWPVGGGLGNHSGGWVPQFLTRSEEPEDSVHRSPCHA
GDCQLNGPTLSHMDSWDNRDNSSQLQPGSHSSCSQCGKTYCQSGSLLNHNTNKTDRHYCLLCSKEFLNPVATKSH
SHNHIDAQTFACPDCGKAFESHQELASHLQAHARGHSQVPAQMEEARDPKAGTGEDQVVLPGQGKAQEAPSETPR
GPGESVERARGGQAVTSMAAEDKERPFRCTQCGRSYRHAGSLLNHQKAHTTGLYPCSLCPKLLPNLLSLKNHSRT
HTDPKRHCCSICGKAFRTAARLEGHGRVHAPREGPFTCPHCPRHFRRRISFVQHQQQHQEEWTVAGSGRGHEGSQ
EEVGTQWRGKSSPKVGGGARSERREPRGF

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FIGURE 2133A

CC**ATG**GACCTGCGCCCTGAGCTGCCCACCACCCTGGGCCCCGTCAGCCTGCGCCAGCTGGGGCTGGAGCACACCC
GCTACCCCTGTCTGGACCTTGGTGCCATGTTGCTCTACACCCTGACCTTCTGGCTCCTGCTGCGCCAGTTTGTGA
AAGAGAAGCTGCTGAAGTGGGCAGAGTCTCCAGCTGCGCTGACGGAGGTCACCGTGGCAGACACAGAGCCTACGC
GGACGCAGACGCTGTTGCAGAGCCTGGGGGAGCTGGTGAAGGGCGTGTACGCCAAGTACTGGATCTATGTGTGTG
CTGGCATGTTCATCGTGGTCAGCTTCGCCGGCCGCCTCGTGGTCTACAAGATTGTCTACATGTTCCTCTTCCTGC
TCTGCCTCACCCTCTTCCAGGTCTACTACAGCCTGTGGCGGAAGCTGCTCAAGGCCTTCTGGTGGCTCGTGGTGG
CCTACACCATGCTGGTCCTCATCGCCGTCTACACCTTCCAGTTCCAGGACTTCCCTGCCTACTGGCGCAACCTCA
CTGGCTTCACCGACGAGCAGCTGGGGGGACCTGGGCCTGGAGCAGTTCAGCGTATCCGAGCTCTTCTCCAGCATCC
TGGTGCCCGGCTTCTTCCTCCTGGCCTGCATCCTGCAGCTGCACTACTTCCACAGGCCCTTCATGCAGCTCACCG
ACATGGAGCACGTGTCCCTGCCTGGCACGCGCCTCCCGCGCTGGGCTCACAGGCAGGATGCAGTGAGTGGGACCC
CACTGCTGCGGGAGGAGCAGCAGGAGCATCAGCAGCAGCAGCAGGAGGAGGAGGAGGAGGAGGACTCCAGGGACG
AGGGGCTGGGCGTGGCCACTCCCCACCAGGCCACGCAGGTGCCTGAAGGGGCAGCCAAGTGGGGCCTGGTGGCTG
AGCGCCTGCTGGAGCTGGCAGCCGGCTTCTCGGACGTCCTCTCACGCGTGCAGGTGTTCCTGCGGCGGCTGCTGG
AGCTTCACGTTTTCAAGCTGGTGGCCCTGTACACCGTCTGGGTGGCCCTGAAGGAGGTGTCGGTGATGAACCTGC
TGCTGGTGGTGCTGTGGGCCTTCGCCCTGCCCTACCCACGCTTCCGGCCCATGGCCTCCTGCCTGTCCACCGTGT
GGACCTGCGTCATCATCGTGTGTAAGATGCTGTACCAGCTCAAGGTTGTCAACCCCCAGGAGTATTCCAGCAACT
GCACCGAGCCCTTCCCCAACAGCACCAACTTGCTGCCCACGGAGATCAGCCAGTCCCTGCTGTACCGGGGGCCCG
TGGACCCTGCCAACTGGTTTGGGGTGCGGAAAGGGTTCCCCAACCTGGGCTACATCCAGAACCACCTGCAAGTGC
TGCTGCTGCTGGTATTCGAGGCCATCGTGTACCGGCGCCAGGAGCACTACCGCCGGCAGCACCAGCTGGCCCCGC
TGCCTGCCCAGGCCGTGTTTGCCAGCGGCACCCGCCAGCAGCTGGACCAGGATCTGCTCGGCTGCCTCAAGTACT
TCATCAACTTCTTCTTCTACAAATTCGGGCTGGAGATCTGCTTCCTGATGGCCGTGAACGTGATCGGGCAGCGCA
TGAACTTTCTGGTGACCCTGCACGGTTGCTGGCTGGTGGCCATCCTCACCCGCAGGCACCGCCAGGCCATTGCCC
GCCTCTGGCCCAACTACTGCCTCTTCCTGGCGCTGTTCCTGCTGTACCAGTACCTGCTGTGCCTGGGGATGCCCC
CGGCCCTGTGCATTGATTATCCCTGGCGCTGGAGCCGGGCCGTCCCCATGAACTCCGCACTCATCAAGTGGCTGT
ACCTGCCTGATTTCTTCCGGGCCCCCAACTCCACCAACCTCATCAGCGACTTTCTCCTGCTGCTGTGCGCCTCCC
AGCAGTGGCAGGTGTTCTCAGCTGAGCGCACAGAGGAGTGGCAGCGCATGGCTGGCGTCAACACCGACCGCCTGG
AGCCGCTGCGGGGGGGAGCCCAACCCCGTGCCCAACTTTATCCACTGCAGGTCCTACCTTGACATGCTGAAGGTGG
CCGTCTTCCGATACCTGTTCTGGCTGGTGCTGGTGGTGGTGTTTGTCACGGGGGCCACCCGCATCAGCATCTTCG
GGCTGGGCTACCTGCTGGCCTGCTTCTACCTGCTGCTCTTCGGCACGGCCCTGCTGCAGAGGGACACACGGGCCC
.GCCTCGTGCTGTGGGACTGCCTCATTCTGTACAACGTCACCGTCATCATCTCCAAGAACATGCTGTCGCTCCTGG
CCTGCGTCTTCGTGGAGCAGATGCAGACCGGCTTCTGCTGGGTCATCCAGCTCTTCAGCCTTGTATGCACCGTCA
AGGGCTACTATGACCCCAAGGAGATGATGGACAGAGACCAGGACTGCCTGCTGCCTGTGGAGGAGGCTGGCATCA
TCTGGGACAGCGTCTGCTTCTTCTTCCTGCTGCTGCAGCGCCGCGTCTTCCTTAGCCATTACTACCTGCACGTCA
GGGCCGACCTCCAGGCCACCGCCCTGCTAGCCTCCAGGGGCTTCGCCCTCTACAACGCTGCCAACCTCAAGAGCA
TTGACTTCCACCGCAGGATAGAGGAGAAGTCCCTGGCCCAGCTGAAAAGACAGATGGAGCGTATCCGTGCCAAGC.
AGGAGAAGCACAGGCAGGGCCGGGTGGACCGCAGTCGCCCCCAGGACACCCTGGGCCCCAAGGACCCCGGCCTGG
AGCCAGGGCCCGACAGTCCAGGGGGCTCCTCCCCGCCACGGAGGCAGTGGTGGCGGCCCTGGCTGGACCACGCCA
CAGTCATCCACTCCGGGGACTACTTCCTGTTTGAGTCCGACAGTGAGGAAGAGGAGGAGGCTGTTCCTGAAGACC
CGAGGCCGTCGGCACAGAGTGCCTTCCAGCTGGCGTACCAGGCATGGGTGACCAACGCCCAGGCGGTGCTGAGGC
GGCGGCAGCAGGAGCAGGAGCAGGCAAGGCAGGAACAGGCAGGACAGCTACCCACAGGAGGTGGTCCCAGCCAGG
AGGTGGAGCCAGCAGAGGGCCCCGAGGAGGCAGCGGCAGGCCGGAGCCATGTGGTGCAGAGGGTGCTGAGCACGG
CGCAGTTCCTGTGGATGCTGGGGCAGGCGCTAGTGGATGAGCTGACACGCTGGCTGCAGGAGTTCACCCGGCACC
ACGGCACCATGAGCGACGTGCTGCGGGCAGAGCGCTACCTCCTCACACAGGAGCTCCTGCAGGGCGGCGAAGTGC
ACAGGGGCGTGCTGGATCAGCTGTACACAAGCCAGGCCGAGGCCACGCTGCCAGGCCCCACCGAGGCCCCCAATG
CCCCAAGCACCGTGTCCAGTGGGCTGGGCGCGGAGGAGCCACTCAGCAGCATGACAGACGACATGGGCAGCCCCC
TGAGCACCGGCTACCACACGCGCAGTGGCAGTGAGGAGGCAGTCACCGACCCCGGGGAGCGTGAGGCTGGTGCCT
CTCTGTACCAGGGACTGATGCGGACGGCCAGCGAGCTGCTCCTGGACAGGCGCCTGCGCATCCCAGAGCTGGAGG
AGGCAGAGCTGTTTGCGGAGGGGCAGGGCCGGGCGCTGCGGCTGCTGCGGGCCGTGTACCAGTGTGTGGCCGCCC

FIGURE 2133B

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ACTCGGAGCTGCTCTGCTACTTCATCATCATCCTCAACCACATGGTCACGGCCTCCGCCGGCTCCCTGGTGCTGC
CCGTGCTCGTCTTCCTGTGGGCCATGCTGTCGATCCCGAGGCCCAGCAAGCGCTTCTGGATGACGGCCATCGTCT
TCACCGAGATCGCGGTGGTCGTCAAGTACCTGTTCCAGTTTGGGTTCTTCCCCTGGAACAGCCACGTGGTGCTGC
GGCGCTACGAGAACAAGCCCTACTTCCCGCCCCGCATCCTGGGCCTGGAGAAGACTGACGGCTACATCAAGTACG
ACCTGGTGCAGCTCATGGCCCTTTTCTTCCACCGCTCCCAGCTGCTGTGCTATGGCCTCTGGGACCATGAGGAGG
ACTCACCATCCAAGGAGCATGACAAGAGCGGCGAGGAGGAGCAGGGAGCCGAGGAGGGGCCAGGGGTGCCTGCGG
CCACCACCGAAGACCACATTCAGGTGGAAGCGAGGGTCGGACCCACGGACGGGACCCCAGAACCCCAAGTGGAGC
TCAGGCCCCGTGATACGAGGCGCATCAGTCTACGTTTTAGAAGAAGGAAGAAGGAGGGCCCAGCACGGAAAGGAG
CGGCAGCCATCGAAGCTGAGGACAGGGAGGAAGAAGAGGGGGAGGAAGAGAAAGAGGCCCCCACGGGGAGAGAGA
AGAGGCCAAGCCGCTCTGGAGGAAGAGTAAGGGCGGCCGGGCGGCGGCTGCAGGGCTTCTGCCTGTCCCTGGCCC
AGGGCACATATCGGCCGCTACGGCGCTTCTTCCACGACATCCTGCACACCAAGTACCGCGCAGCCACCGACGTCT
ATGCCCTCATGTTCCTGGCTGATGTTGTCGACTTCATCATCATCATTTTTGGCTTCTGGGCCTTTGGGAAGCACT
CGGCCGGCCACAGACATCACGTCCTCCCTATCAGACGACCAGGTACCCGAGGCTTTCCTGGTCATGCTGCTGATCC
AGTTCAGTACCATGGTGGTTGACCGCGCCCTCTACCTGCGCAAGACCGTGCTGGGCAAGCTGGCCTTCCAGGTGG
CGCTGGTGCTGGCCATCCACCTATGGATGTTCTTCATCCTGCCCGCCGTCACTGAGAGGATGTTCAACCAGAATG
TGGTGGCCCAGCTCTGGTACTTCGTGAAGTGCATCTACTTCGCCCTGTCCGCCTACCAGATCCGCTGCGGCTACC
CCACCCGCATCCTCGGCAACTTCCTCACCAAGAAGTACAATCATCTCAACCTCTTCCTCTTCCAGGGGTTCCGGC
TGGTGCCGTTCCTGGTGGAGCTGCGGGCAGTGATGGACTGGGTGTGGACGGACACCACGCTGTCCCTGTCCAGCT
GGATGTGTGTGGAGGACATCTATGCCAACATCTTCATCATCAAATGCAGCCGAGAGACAGAGAAGAAATACCCGC
AGCCCAAAGGGCAGAAGAAGAAGAAGATCGTCAAGTACGGCATGGGTGGCCTCATCATCCTCTTCCTCATCGCCA
TCATCTGGTTCCCGCTGCTCTTCATGTCGCTGGTGCGCTCCGTGGTTGGGGTTGTCAACCAGCCCATCGATGTCA
CCGTCACCCTCAAGCTGGGCGGCTATGAGCCGCTGTTCACCATGAGCGCCCAGCAGCCGTCCATCATCCCCTTCA
CGGCCCAGGCCTATGAGGAGCTGTCCCGGCAGTTTGACCCCCAGCCGCTGGCCATGCAGTTCATCAGCCAGTACA
GCCCTGAGGACATCGTCACGGCGCAGATTGAGGGCAGCTCCGGGGCGCTGTGGCGCATCAGTCCCCCCCAGCCGTG
CCCAGATGAAGCGGGAGCTCTACAACGGCACGGCCGACATCACCCTGCGCTTCACCTGGAACTTCCAGAGGGACC
TGGCGAAGGGAGGCACTGTGGAGTATGCCAACGAGAAGCACATGCTGGCCCTGGCCCCCAACAGCACTGCACGGC
GGCAGCTGGCCAGCCTGCTCGAGGGCACCTCGGACCAGTCTGTGGTCATCCCCAATCTCTTCCCCAAGTACATCC
GTGCCCCCAACGGGCCCGAAGCCAACCCTGTGAAGCAGCTGCAGCCCAATGAGGAGGCCGACTACCTCGGCGTGC
GTATCCAGCTGCGGAGGGAGCAGGGTGCGGGGGCCACCGGCTTCCTCGAATGGTGGGTCATCGAGCTGCAGGAGT
GCCGGACCGACTGCAACCTGCTGCCCATGGTCATTTTCAGTGACAAGGTCAGCCCACCGAGCCTCGGCTTCCTGG
CTGGCTACGGCATCATGGGGCTGTACGTGTCCATCGTGCTGGTCATCGGCAAGTTCGTGCGCGGATTCTTCAGCG
AGATCTCGCACTCCATTATGTTCGAGGAGCTGCCGTGCGTGGACCGCATCCTCAAGCTCTGCCAGGACATCTTCC
TGGTGCGGGAGACTCGGGAGCTGGAGCTGGAGGAGGAGTTGTACGCCAAGCTCATCTTCCTCTACCGCTCACCGG
AGACCATGATCAAGTGGACTCGTGAGAAGGAGTAGGAGCTGCTGCTGGCGCCCGAGAGGGAAGGAGCCGGCCTGC
TGGGCAGCGTGGCCACAAGGGGCGGCACTCCTCAGGCCGGGGGAGCCACTGCCCCGTCCAAGGCCGCCAGCTGTG
ATGCATCCTCCCGGCCTGCCTGAGCCCTGATGCTGCTGTCAGAGAAGGACACTGCGTCCCCACGGCCTGCGTGGC
GCTGCCGTCCCCCACGTGTACTGTAGAGTTTTTTTTTTTAATTAAAAAAATGTTTTATTTATACAAATGG
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FIGURE 2134

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MDLRPELPTTLGPVSLRQLGLEHTRYPCLDLGAMLLYTLTFWLLLRQFVKEKLLKWAESPAALTEVTVADTEPTR
TQTLLQSLGELVKGVYAKYWIYVCAGMFIVVSFAGRLVVYKIVYMFLFLLCLTLFQVYYSLWRKLLKAFWWLVVA
YTMLVLIAVYTFQFQDFPAYWRNLTGFTDEQLGDLGLEQFSVSELFSSILVPGFFLLACILQLHYFHRPFMQLTD
MEHVSLPGTRLPRWAHRQDAVSGTPLLREEQQEHQQQQQEEEEEEDSRDEGLGVATPHQATQVPEGAAKWGLVAE
RLLELAAGFSDVLSRVQVFLRRLLELHVFKLVALYTVWVALKEVSVMNLLLVVLWAFALPYPRFRPMASCLSTVW
TCVIIVCKMLYQLKVVNPQEYSSNCTEPFPNSTNLLPTEISQSLLYRGPVDPANWFGVRKGFPNLGYIQNHLQVL
LLLVFEAIVYRRQEHYRRQHQLAPLPAQAVFASGTRQQLDQDLLGCLKYFINFFFYKFGLEICFLMAVNVIGQRM
NFLVTLHGCWLVAILTRRHRQAIARLWPNYCLFLALFLLYQYLLCLGMPPALCIDYPWRWSRAVPMNSALIKWLY
LPDFFRAPNSTNLISDFLLLLCASQQWQVFSAERTEEWQRMAGVNTDRLEPLRGEPNPVPNFIHCRSYLDMLKVA
VFRYLFWLVLVVVFVTGATRISIFGLGYLLACFYLLLFGTALLQRDTRARLVLWDCLILYNVTVIISKNMLSLLA
CVFVEQMQTGFCWVIQLFSLVCTVKGYYDPKEMMDRDQDCLLPVEEAGIIWDSVCFFFLLLQRRVFLSHYYLHVR
ADLQATALLASRGFALYNAANLKSIDFHRRIEEKSLAQLKRQMERIRAKQEKHRQGRVDRSRPQDTLGPKDPGLE
PGPDSPGGSSPPRRQWWRPWLDHATVIHSGDYFLFESDSEEEEEAVPEDPRPSAQSAFQLAYQAWVTNAQAVLRR
RQQEQEQARQEQAGQLPTGGGPSQEVEPAEGPEEAAAGRSHVVQRVLSTAQFLWMLGQALVDELTRWLQEFTRHH
GTMSDVLRAERYLLTQELLQGGEVHRGVLDQLYTSQAEATLPGPTEAPNAPSTVSSGLGAEEPLSSMTDDMGSPL
STGYHTRSGSEEAVTDRGEREAGASLYQGLMRTASELLLDRRLRIPELEEAELFAEGQGRALRLLRAVYQCVAAH
SELLCYFIIILNHMVTASAGSLVLPVLVFLWAMLSIPRPSKRFWMTAIVFTEIAVVVKYLFQFGFFPWNSHVVLR
RYENKPYFPPRILGLEKTDGYIKYDLVQLMALFFHRSQLLCYGLWDHEEDSPSKEHDKSGEEEQGAEEGPGVPAA
TTEDHIQVEARVGPTDGTPEPQVELRPRDTRRISLRFRRRKKEGPARKGAAAIEAEDREEEEGEEEKEAPTGREK
RPSRSGGRVRAAGRRLQGFCLSLAQGTYRPLRRFFHDILHTKYRAATDVYALMFLADVVDFIIIIFGFWAFGKHS
AATDITSSLSDDQVPEAFLVMLLIQFSTMVVDRALYLRKTVLGKLAFQVALVLAIHLWMFFILPAVTERMFNQNV
VAQLWYFVKCIYFALSAYQIRCGYPTRILGNFLTKKYNHLNLFLFQGFRLVPFLVELRAVMDWVWTDTTLSLSSW
MCVEDIYANIFIIKCSRETEKKYPQPKGQKKKKIVKYGMGGLIILFLIAIIWFPLLFMSLVRSVVGVVNQPIDVT
VTLKLGGYEPLFTMSAQQPSIIPFTAQAYEELSRQFDPQPLAMQFISQYSPEDIVTAQIEGSSGALWRISPPSRA
QMKRELYNGTADITLRFTWNFQRDLAKGGTVEYANEKHMLALAPNSTARRQLASLLEGTSDQSVVIPNLFPKYIR
APNGPEANPVKQLQPNEEADYLGVRIQLRREQGAGATGFLEWWVIELQECRTDCNLLPMVIFSDKVSPPSLGFLA
GYGIMGLYVSIVLVIGKFVRGFFSEISHSIMFEELPCVDRILKLCQDIFL
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FIGURE 2135A

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GGCGAGCTAAGCCGGAGGATGTGCAGCTGCGGCGGCGGCGCCGGCTACGAAGAGGACGGGGACAGGCGCCGTGCG
AACCGAGCCCAGCCAGCCGGAGGACGCGGGCAGGGCGGGACGGGAGCCCGGACTCGTCTGCCGCCGCCGTCGTCG
CCGTCGTGCCGGCCCCGCGTCCCCGCGCGCGAGCGGGAGGAGCCGCCGCCACCTCGCGCCCGAGCCGCCGCTAGC
GCGCGCCGGGCATGGTCCCCTCTTAAAGGCGCAGGCCGCGGCGGCGGGGGCGGGCGTGCGGAACAAAGCGCCGGC
GCGGGGCCTGCGGGCGGCTCGGGGGCCGCGATGGGCGCGGCGGGCCCGCGGCGGCGGCGGCGCTGCCCGGGCCGG
GCCTCGCGGCGCTAGGGCGGGCTGGCCTCCGCGGGCGGGGGCAGCGGGCTGAGGGCGCGCGGGGCCTGCGGCGGC
GGCGGCGGCGGCGGCGGCGGCCCGGCGGGCGGAGCGGCGCGGGCATGGCCGCGCGCGGCCGGCGCGCCTGGCTCA
GCGTGCTGCTCGGGCTCGTCCTGGGCTTCGTGCTGGCCTCGCGGCTCGTCCTGCCCCGGGCTTCCGAGCTGAAGC
GAGCGGGCCCACGGCGCCGCGCCAGCCCCGAGGGCTGCCGGTCCGGGCAGGCGGCGGCTTCCCAGGCCGGCGGGG
CGCGCGGCGATGCGCGCGGGGCGCAGCTCTGGCCGCCCGGCTCGGACCCAGATGGCGGCCCGCGCGACAGGAACT
TTCTCTTCGTGGGAGTCATGACCGCCCAGAAATACCTGCAGACTCGGGCCGTGGCCGCCTACAGAACATGGTCCA
AGACAATTCCTGGGAAAGTTCAGTTCTTCTCAAGTGAGGGTTCTGACACATCTGTACCAATTCCAGTAGTGCCAC
TACGGGGTGTGGACGACTCCTACCCGCCCCAGAAGAAGTCCTTCATGATGCTCAAGTACATGCACGACCACTACT
GGACAAGTATGAATGGTTTATGAGAGCAGATGATGACGTGTACATCAAAGGAGACCGTCTGGAGAACTTCCTGA
GGAGTTTGAACAGCAGCGAGCCCCTCTTTCTTGGGCAGACAGGCCTGGGCACCACGGAAGAAATGGGAAAACTGG
CCCTGGAGCCTGGTGAGAACTTCTGCATGGGGGGGCCTGGCGTGATCATGAGCCGGGAGGTGCTTCGGAGAATGG
TGCCGCACATTGGCAAGTGTCTCCGGGAGATGTACACCACCCATGAGGACGTGGAGGTGGGAAGGTGTGTCCGGA
GGTTTGCAGGGGTGCAGTGTGTCTGGTCTTATGAGATGCAGCAGCTTTTTTATGAGAATTACGAGCAGAACAAAA
AGGGGTACATTAGAGATCTCCATAACAGTAAAATTCACCAAGCTATCACATTACACCCCAACAAAAACCCACCCT
ACCAGTACAGGCTCCACAGCTACATGCTGAGCCGCAAGATATCCGAGCTCCGCCATCGCACAATACAGCTGCACC
GCGAAATTGTCCTGATGAGCAAATACAGCAACACAGAAATTCATAAAGAGGACCTCCAGCTGGGAATCCCTCCCT
CCTTCATGAGGTTTCAGCCCCGCCAGCGAGAGGAGATTCTGGAATGGGAGTTTCTGACTGGAAAATACTTGTATT
CGGCAGTTGACGGCCAGCCCCCTCGAAGAGGAATGGACTCCGCCCAGAGGGAAGCCTTGGACGACATTGTCATGC
AGGTCATGGAGATGATCAATGCCAACGCCAAGACCAGAGGGCGCATCATTGACTTCAAAGAGATCCAGTACGGCT
ACCGCCGGGTGAACCCCATGTATGGGGCTGAGTACATCCTGGACCTGCTGCTTCTGTACAAAAAGCACAAAGGGA
AGAAAATGACGGTCCCTGTGAGGAGGCACGCGTATTTACAGCAGACTTTCAGCAAAATCCAGTTTGTGGAGCATG
AGGAGCTGGATGCACAAGAGTTGGCCAAGAGAATCAATCAGGAATCTGGATCCTTGTCCTTTCTCTCAAACTCCC
TGAAGAAGCTCGTCCCCTTTCAGCTCCCTGGGTCGAAGAGTGAGCACAAAGAACCCAAAGATAAAAAGATAAACA
TACTGATTCCTTTGTCTGGGCGTTTCGACATGTTTGTGAGATTTATGGGAAACTTTGAGAAGACGTGTCTTATCC
CCAATCAGAACGTCAAGCTCGTGGTTCTGCTTTTCAATTCTGACTCCAACCCTGACAAGGCCAAACAAGTTGAAC
TGATGACAGATTACCGCATTAAGTACCCTAAAGCCGACATGCAGATTTTGCCTGTGTCTGGAGAGTTTTCAAGAG
CCCTGGCCCTGGAAGTAGGATCCTCCCAGTTTAACAATGAATCTTTGCTCTTCTTCTGCGACGTCGACCTCGTCT
TTACTACAGAATTCCTTCAGCGATGTCGAGCAAATACAGTTCTGGGCCAACAAATATATTTTCCAATCATCTTCA
GCCAGTATGACCCAAAGATTGTTTATAGTGGGAAAGTTCCCAGTGACAACCATTTTGCCTTTACTCAGAAAACTG
GCTTCTGGAGAAACTATGGGTTTGGCATCACGTGTATTTATAAGGGAGATCTTGTCCGAGTGGGTGGCTTTGATG
TTTCCATCCAAGGCTGGGGGCTGGAGGATGTGGACCTTTTCAACAAGGTTGTCCAGCAGGTTTGAAGACGTTTA
GGAGCCAGGAAGTAGGAGTAGTCCACGTCCACCATCCTGTCTTTTGTGATCCCAATCTTGACCCCAAACAGTACA
AAATGTGCTTGGGGTCCAAAGCATCGACCTATGGGTCCACACAGCAGCTGGCTGAGATGTGGCTGGAAAAAAATG
ATCCAAGTTACAGTAAAAGCAGCAATAATAATGGCTCAGTGAGGACAGCCTAATGTCCAGCTTTGCTGGAAAAGA
CGTTTTTAATTATCTAATTTATTTTTCAAAAATTTTTGTATGATCAGTTTTTGAAGTCCGTATACAAGGATATA
TTTTACAAGTGGTTTTCTTACATAGGACTCCTTTAAGATTGAGCTTTCTGAACAAGAAGGTGATCAGTGTTTGCC
TTTGAACACATCTTCTTGCTGAACATTATGTAGCAGACCTGCTTAACTTTGACTTGAAATGTACCTGATGAACAA
AACTTTTTTAAAAAAATGTTTTCTTTTGAGACCCTTTGCTCCAGTCCTATGGCAGAAAACGTGAACATTCCTGCA
AAGTATTATTGTAACAAAACACTGTAACTCTGGTAAATGTTCTGTTGTGATTGTTAACATTCCACAGATTCTACC
TTTTGTGTTTTGTTTTTTTTTTTTTACAATTGTTTTAAAGCCATTTCATGTTCCAGTTGTAAGATAAGGAAATGT
GATAATAGCTGTTTCATCATTGTCTTCAGGAGAGCTTTCCAGAGTTGATCATTTCCCCTCATGGTACTCTGCTCA
GCATGGCCACGTAGGTTTTTTGTTGTTTGTTTTGTTCTTTTTTTGAGACGGAGTCTCACTCTGTTACCCAGGC
TGGAATGCAGTGGCGCAATCTTGGCTCACTTTAACCTCCACTTCCCTGGTTCAAGCAATTCCCCTGCCTTTGCCT
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FIGURE 2135B

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CCCGAGTAGCTGGGATTACAGGCACACACCACCACGCCCAGCTAGTTTTTTTGTATTTTTAGTAGAGACGGGGTT
TCACCATGCAAGCCCAGCTGGCCACGTAGGTTTTAAAGCAAGGGGCGTGAAGAAGGCACAGTGAGGTATGTGGCT
GTTCTCGTGGTAGTTCATTCGGCCTAAATAGACCTGGCATTAAATTTCAAGAAGGATTTGGCATTTTCTCTTCTT
GACCCTTCTCTTTAAAGGGTAAAATATTAATGTTTAGAATGACAAAGATGAATTATTACAATAAATCTGATGTAC
ACAGACTGAAACACACACACATACACCCTAATCAAAACGTTGGGGAAAAATGTATTTGGTTTTGTTCCTTTCATC
CTGTCTGTGTTATGTGGGTGGAGATGGTTTTCATTCTTTCATTACTGTTTTGTTTTATCCTTTGTATCTGAAATA
CCTTTAATTTATTTAATATCTGTTGTTCAGAGCTCTGCCATTTCTTGAGTACCTGTTAGTTAGTATTATTTATGT
GTATCGGGAGTGTGTTTAGTCTGTTTTATTTGCAGTAAACCGATCTCCAAAGATTTCCTTTTGGAAACGCTTTTT
CCCCTCCTTAATTTTTATATTCCTTACTGTTTTACTAAATATTAAGTGTTCTTTGACAATTTTGGTGCTCATGTG
TTTTGGGGACAAAAGTGAAATGAATCTGTCATTATACCAGAAAGTTAAATTCTCAGATCAAATGTGCCTTAATAA
ATTTGTTTTCATTTAGATTTCAAACAGTGATAGACTTGCCATTTTAATACACGTCATTGGAGGGCTGCGTATTTG
TAAATAGCCTGATGCTCATTTGGAAAAATAAACCAGTGAACAATATTTTTCTATTGTACTTTTCAGAACCATTTT
GTCTCATTATTCCTGTTTTAGCTGAAGAATTGTATTACATTTGGAGAGTAAAAAACTTAAACACG
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FIGURE 2136

MAARGRRAWLSVLLGLVLGFVLASRLVLPRASELKRAGPRRRASPEGCRSGQAAASQAGGARGDARGAQLWPPGS
DPDGGPRDRNFLFVGVMTAQKYLQTRAVAAYRTWSKTIPGKVQFFSSEGSDTSVPIPVVPLRGVDDSYPPQKKSF
MMLKYMHDHYLDKYEWFMRADDDVYIKGDRLENFLRSLNSSEPLFLGQTGLGTTEEMGKLALEPGENFCMGGPGV
IMSREVLRRMVPHIGKCLREMYTTHEDVEVGRCVRRFAGVQCVWSYEMQQLFYENYEQNKKGYIRDLHNSKIHQA
ITLHPNKNPPYQYRLHSYMLSRKISELRHRTIQLHREIVLMSKYSNTEIHKEDLQLGIPPSFMRFQPRQREEILE
WEFLTGKYLYSAVDGQPPRRGMDSAQREALDDIVMQVMEMINANAKTRGRIIDFKEIQYGYRRVNPMYGAEYILD
LLLLYKKHKGKKMTVPVRRHAYLQQTFSKIQFVEHEELDAQELAKRINQESGSLSFLSNSLKKLVPFQLPGSKSE
HKEPKDKKINILIPLSGRFDMFVRFMGNFEKTCLIPNQNVKLVVLLFNSDSNPDKAKQVELMTDYRIKYPKADMQ
ILPVSGEFSRALALEVGSSQFNNESLLFFCDVDLVFTTEFLQRCRANTVLGQQIYFPIIFSQYDPKIVYSGKVPS
DNHFAFTQKTGFWRNYGFGITCIYKGDLVRVGGFDVSIQGWGLEDVDLFNKVVQAGLKTFRSQEVGVVHVHHPVF
CDPNLDPKQYKMCLGSKASTYGSTQQLAEMWLEKNDPSYSKSSNNNGSVRTA

FIGURE 2137

ACAGGAGGAGACAGCCTCCCGGCCCGGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGA
CGGTCCGTTTCCTGCCGTCAACTGCCGGCCGAGTTGGGTCTCCGTGGTTCAGGCCGGCTCCCCCTTCCTGGTCTC
CCTTCTCCCGCTGGGCCGGTTTATCGGGAGGAGATTGTCTTCCAGGGCTAGCAATTGGACTTTTGATGATGTTTG
ACCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCTC**ATG**TTTCTTCTCTCGTGTAATCGC
AAAACCCATTTTGGAGCAGGAATTCCAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAG
AAACTCCCAGGCAGGAACACCTTTTGCTGTGATGGCCGCGTCATGATGGCCCGGCAAAAGGGCATTTTCTACCTG
ACCCTTTTCCTCATCCTGGGGACATGTACACTCTTCTTCGCCTTTGAGTGCCGCTACCTGGCTGTTCAGCTGTCT
CCTGCCATCCCTGTATTTGCTGCCATGCTCTTCCTTTTCTCCATGGCTACACTGTTGAGGACCAGCTTCAGTGAC
CCTGGAGTGATTCCTCGGGCGCTACCAGATGAAGCAGCTTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCG
GTGCCGGGCTACCAGCGACCACCGCCTCGTATCAAGAATTTCCAGATAAACAACCAGATTGTGAAACTGAAATAC
TGTTACACATGCAAGATCTTCCGGCCTCCCCGGGCCTCCCATTGCAGCATCTGTGACAACTGTGTGGAGCGCTTC
GACCATCACTGCCCCTGGGTGGGGAATTGTGTTGGAAAGAGGAACTACCGCTACTTCTACCTCTTCATCCTTTCT
CTCTCCCTCCTCACAATCTATGTCTTCGCCTTCAACATCGTCTATGTGGCCCTCAAATCTTTGAAAATTGGCTTC
TTGGAGACATTGAAAGAAACTCCTGGAACTGTTCTAGAAGTCCTCATTTGCTTCTTTACACTCTGGTCCGTCGTG
GGACTGACTGGATTTCATACTTTCCTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACA
GGGAAGAATCGCGTCCAGAATCCCTACAGCCATGGCAATATTGTGAAGAACTGCTGTGAAGTGCTGTGTGGCCCC
TTGCCCCCCAGTGTGCTGGATCGAAGGGGTATTTTGCCACTGGAGGAAAGTGGAAGTCGACCTCCCAGTACTCAA
GAGACCAGTAGCAGCCTCTTGCCACAGAGCCCAGCCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGAC
AGCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAG**TAG**

CCTATCTATGGAAGAGACTTTTGTTTGTGTTAATTAGGGCTATGAGAGATTTCAGGTGAGAAGTTAAACCTGAG
ACAGAGAGCAAGTAAGCTGTCCCTTTTAATTGTTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGGCATTT
TCTTGGCTGGCAAGCTTTTTTTAAAATTTGCTGAAACTTCAAGGGCAGTGGCCAGGAAGGATGTTCAGTTCACCT
CTGGATAAACTGGGAAAAATGGGGTCTCTTGGGGCCGGGCACTGGTTT

FIGURE 2138

MFLLSCNRKTHFGAGIPIMSVMVVRKKVTRKWEKLPGRNTFCCDGRVMMARQKGIFYLTLFLILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPGYQRPPPRIKNFQIN
NQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHHCPWVGNCVGKRNYRYFYLFILSLSLLTIYVFAFNIVYVA
LKSLKIGFLETLKETPGTVLEVLICFFTLWSVVGLTGFHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPPEPPEPPQ
EAAEAEK

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FIGURE 2139

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CTTTGTTTTGCTTCGAGATGGCTGCGGGGATGTATTTGGAACATTATCTGGACAGTATTGAAAACCTTCCCTTTG
AATTACAGAGAAACTTTCAGCTCATGAGGGACCTAGACCAAAGAACAGAGGACCTGAAGGCTGAAATTGACAAGT
TGGCCACTGAGTATATGAGTAGTGCCCGCAGCCTGAGCTCCGAGGAAAAATTGGCCCTTCTCAAACAGATCCAGG
AAGCCTATGGCAAGTGCAAGGAATTTGGTGACGACAAGGTGCAGCTTGCCATGCAGACCTATGAGATGGTGGACA
AACACATTCGGCGGCTGGACACAGACCTGGCCCGTTTTGAGGCTGATCTCAAGGAGAAACAGATTGAGTCAAGTG
ACTATGACAGCTCTTCCAGCAAAGGCAAAAAGAAAGGCCGGACTCAAAAGGAGAAGAAAGCTGCTCGTGCTCGTT
CCAAAGGGAAAAACTCGGATGAAGAAGCCCCCAAGACTGCCCAGAAGAAGTTAAAGCTCGTGCGCACAAGTCCTG
AGTATGGGATGCCCTCAGTGACCTTTGGCAGTGTCCACCCCTCTGATGTGTTGGATATGCCTGTGGATCCCAACG
AACCCACCTATTGCCTTTGTCACCAGGTCTCCTATGGAGAGATGATTGGCTGTGACAACCCTGATTGTTCCATTG
AGTGGTTCCATTTTGCCTGTGTGGGGCTGACAACCAAGCCTCGGGGGAAATGGTTTTGCCCACGCTGCTCCCAAG
AACGGAAGAAGAAATAGATAAGGGCCTTGGATTCCAACACAGTTTCTTCCACATCCCCTGACTTGGGCTAGTGGG
CAGAGGAATGCCTGTGCTGGGGCCAGGGGTTCAGGGAGGAGTGGATGGCACAGTGCTGTCATCCCTTCTCCTCCC
CTCTCCCCACTCCCGGTGCTGAGGCTGCATCAGACCCTGGTAGGGAGGGGTGCCGCAGCCACTAACGGTATGTGC
TCTCCTTCAGCCCTCTCCTTCGGAGGGACGTGGTCTTGCCCACTGTCCTTTTGCCTCCATGCTGAGGTCGGTGCT
GTATTTCAGAGGGAGGGTCCTTTTCATTCTCCTTGCTTTGTATTTAAGGACTGGGGCATAGCATGGGGGCAGTCC
CCCAGACCTCTTCATTCCCCCTCCTGTGGTGAGGGCTAGGTGTGATCAACACTTTTCTTCTCCATTCCCTTCCTG
CTTTTTTCATGGTGGGGATCCACCAGGTCATCTAGCTCTGGCCCTAGTTGAAGGGCACCCCTTCCTCTGTGCCAA
GAGGATTCATCCTGGGAGAGGGGGCAAGGTGGAATGCAGATAACTCACATGTAAAAGGAACTTGGGTAGGTAAAT
AAAAGCTATACATGTTGAAAAAAAAAA
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FIGURE 2140

MAAGMYLEHYLDSIENLPFELQRNFQLMRDLDQRTEDLKAEIDKLATEYMSSARSLSSEEKLALLKQIQEAYGKC
KEFGDDKVQLAMQTYEMVDKHIRRLDTDLARFEADLKEKQIESSDYDSSSSKGKKKGRTQKEKKAARARSKGKNS
DEEAPKTAQKKLKLVRTSPEYGMPSVTFGSVHPSDVLDMPVDPNEPTYCLCHQVSYGEMIGCDNPDCSIEWFHFA
CVGLTTKPRGKWFCPRCSQERKKK

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FIGURE 2141

TGCAGTCTGTCTGAGGGCGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGC
GTCTGCGATGGTCCGGAGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAAAG**ATG**CAGTACGCC
ACGGGGCCGCTGCTCAAGTTCCAGATTTGTGTTTCCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTT
ATTAGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCA
TCTTTCCTGTCAGTCTTCAAACTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTTCTTTGGC
ATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGATGGTTTTCTTCTTGAGC
AACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGGTCTAAG
CTGGAATCTGGTCACCTTCCATCCATGCAACAACTTGTTCAAATTCTTGACAATGAAATGAAGCTCAATGTGCAT
ATGGATTCAATCCCACACCATCGATCA**TAG**CACCACCTATCAGCACTGAAAACTCTTTTGCATTAAGGGATCATT
GCAAGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGTACAGACCAGATGCTTTC
TTGGCAGGCTCGTTGTACCTCTTGGAAAACCTCAATGCAAGATAGTGTTTCAGTGCTGGCATATTTTGGAATTCT
GCACATTCATGGAGTGCAATAATACTGTATAGCTTTCCCCCACCTCCCACAAAATCACCCAGTTAATGTGTGTGT
GTGTGTTTTTTTTAAGGTAAACATTACTACTTGTAACTTTTTTTCTTTAGTCATATTTGGAAAAAGTAGAAAATT
GGAGTTACATTTGGATTTTTTTTCCAA

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FIGURE 2142

MQYATGPLLKFQICVSXGYRRVFEEYMRVISQRYPDIRIEGENYLPQPIYRHIASFLSVFKLVLIGLIIVGKDPF
AFFGMQAPSIWQWGQENKVYACMMVFFLSNMIENQCMSTGAFEITLNDVPVWSKLESGHLPSMQQLVQILDNEMK
LNVHMDSIPHHRS

FIGURE 2143

CGGCCTTGTCAGCTCACAGCAGGCGTTAACAGCCTCTAATTGAGGAAACTGTGGCTGGACAGGTTGCAAGGCAGT
TCTGCTCCCCATCGTCCTCTTGCTGACTGGGGACTGCTGAGCCCGTGCACGGCAGAGAGTCTGGTGGGGTGGAGG
GGCTGGCCTGGCCCCTCTGTCCTGTGGAA**ATG**CTGGGGCAAGTGGTCACCCTCATACTCCTCCTGCTCCTCAAGG
TGTATCAGGGCAAAGGATGCCAGGGATCAGCTGACCATGTGGTTAGCATCTCGGGAGTGCCTCTTCAGTTACAAC
CAAACAGCATACAGACGAAGGTTGACAGCATTGCATGGAAGAAGTTGCTGCCCTCACAAAATGGATTTCATCACA
TATTGAAGTGGGAGAATGGCTCTTTGCCTTCCAATACTTCCAATGATAGATTCAGTTTTATAGTCAAGAACTTGA
GTCTTCTCATCAAGGCAGCTCAGCAGCAGGACAGTGGCCTCTACTGCCTGGAGGTCACCAGTATATCTGGAAAAG
TTCAGACAGCCACGTTCCAGGTTTTTGTATTTGATAAAGTTGAGAAACCCCGCCTACAGGGGCAGGGGAAGATCC
TGGACAGAGGGAGATGCCAAGTGGCTCTGTCTTGCTTGGTCTCCAGGGATGGCAATGTGTCCTATGCTTGGTACA
GAGGGAGCAAGCTGATCCAGACAGCAGGGAACCTCACCTACCTGGACGAGGAGGTTGACATTAATGGCACTCACA
CATATACCTGCAATGTCAGCAATCCTGTTAGCTGGGAAAGCCACACCCTGAATCTCACTCAGGACTGTCAGAATG
CCCATCAGGAATTCAGATTTTGGCCGTTTTTGGTGATCATCGTGATTCTAAGCGCACTGTTCCTTGGCACCCTTG
CCTGCTTCTGTGTGTGGAGGAGAAAGAGGAAGGAGAAGCAGTCAGAGACCAGTCCCAAGGAATTTTTGACAATTT
ACGAAGATGTCAAGGATCTGAAAACCAGGAGAAATCACGAGCAGGAGCAGACTTTTCCTGGAGGGGGGAGCACCA
TCTACTCTATGATCCAGTCCCAGTCTTCTGCTCCCACGTCACAAGAACCTGCATATACATTATATTCATTAATTC
AGCCTTCCAGGAAGTCTGGATCCAGGAAGAGGAACCACAGCCCTTCCTTCAATAGCACTATCTATGAAGTGATTG
GAAAGAGTCAACCTAAAGCCCAGAACCCTGCTCGATTGAGCCGCAAAGAGCTGGAGAACTTTGATGTTTATTCC**T**
AGTTGCTGCAGCAATTCTCACCTTTCTTGCACATCAGCATCTGCTTTGGGAATTGGCACAGTGGATGACGGCACA
GGAGTCTCTATAGAACACTTCCTAGTCTGGAGAGGATATGGAAATTTGTTCTTGTTCTATATTTTGTTTTGAAAA
TGATGTCTAACAACCATGATAAGAGCAAGGCTGTTAAATAATATCTTCCAATTTACAGATCAGACATGAATGGGT
GGAGGGGTTAGGTTGTTCACAAAAGGCCACATTCCAAGTATTTGTAATCTAGAAAGTGTTATGTAAGTGATGTTA
TTAGCATCGAGATTCCCTCCACCTGATTTTCAAGCTGTCACTTGTTTCCTTTTCTCCCCTCTCTGGGTTGACTGC
ATTTCTAGACTCTCGCCGGCCCAGGCCCATCTTCCAAAGCAAGAGGAAGGAATGATAATGGTGACTCAGGGGAAG
AAGAAACAGCCCTCCTCTGAAAGCCTGGACTGTCCGGCTGTGAACTGGCTGGCAGGTTCTGCACGTGGGTGGGGG
CCAGGGCCTGGGCTTTACTCAATTGCAGAGAAAAAACTTTCTCCCTGCATCTCATACCTTTACCTCTGGCCAGTT
GGCCACCAGGGGGAGTGGGCTGAAGGGAGAGTAGATGGTGCAAAGCAAGCCCATCTCTGAGTAGAAAAATCACCC
AGAGCACATGCTGACCTGATAACTGGGGTGTTGAGACCAGCTTTGTCCATGGTATGATGTTTGATTTATGAAGAC
GCATTGTTAGAAATCCATTTGGCTTCTTCATAGAAGTGGCTTCCCAGAGGAAGAGGCCTCTCAGAAACCATGTTC
TATTTAAGTTCTGAGTCCTGATGAGTGTTCCCCAGGATGCACATTGAAGGGAGGGCTCAGGCAGCTGAGGGCTGA
GAATGAGGCAGTTGGAATCTAGACACTATGCTGGGTTCCCTGAGTCGTCAGGCCAGACATTTCAACAAGGCTGTG
GGGAGCAGGGCTGTGACTCTGGCTGAGCCCAGGAAAGCGACAAGGGTGAACTGGGAGAGGACTTACTCAGAGACC
CCAACAGGTGATACTGCACAAAGCCTGGTTCTTCAATTTTCCTACCCTGTATCTAACATAGGAGTTTCATATAAA
ACGGTGATATCATGCAGATGCAGTCTGAATTCCTTGCCTG

FIGURE 2144

MLGQVVTLILLLLLKVYQGKGCQGSADHVVSISGVPLQLQPNSIQTKVDSIAWKKLLPSQNGFHHILKWENGSLP
SNTSNDRFSFIVKNLSLLIKAAQQQDSGLYCLEVTSISGKVQTATFQVFVFDKVEKPRLQGQGKILDRGRCQVAL
SCLVSRDGNVSYAWYRGSKLIQTAGNLTYLDEEVDINGTHTYTCNVSNPVSWESHTLNLTQDCQNAHQEFRFWPF
LVIIVILSALFLGTLACFCVWRRKRKEKQSETSPKEFLTIYEDVKDLKTRRNHEQEQTFPGGGSTIYSMIQSQSS
APTSQEPAYTLYSLIQPSRKSGSRKRNHSPSFNSTIYEVIGKSQPKAQNPARLSRKELENFDVYS

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FIGURE 2145A

GGCCCGGCTGCGAGGAGGAGGCGGCGGCGGCGCAGGAG**ATG**TACTTGGTGGCGGGGGACAGGGGGTTGGCCGGC
TGCGGGCACCTCCTGGTCTCGCTGCTGGGGCTGCTGCTGCTGCTGGCGCGCTCCGGCACCCGGGCGCTGGTCTGC
CTGCCCTGTGACGAGTCCAAGTGCGAGGAGCCCAGGAACTGCCCGGGGAGCATCGTGCAGGGCGTCTGCGGCTGC
TGCTACACGTGCGCCAGCCAGAGGAACGAGAGCTGCGGCGGCACCTTCGGGATTTACGGAACCTGCGACCGGGGG
CTGCGTTGTGTCATCCGCCCCCCGCTCAATGGCGACTCCCTCACCGAGTACGAAGCGGGCGTTTGCGAAGATGAG
AACTGGACTGATGACCAACTGCTTGGTTTTAAACCATGCAATGAAAACCTTATTGCTGGCTGCAATATAATCAAT
GGGAAATGTGAATGTAACACCATTCGAACCTGCAGCAATCCCTTTGAGTTTCCAAGTCAGGATATGTGCCTTTCA
GCTTTAAAGAGAATTGAAGAAGAGAAGCCAGATTGCTCCAAGGCCCGCTGTGAAGTCCAGTTCTCTCCACGTTGT
CCTGAAGATTCTGTTCTGATCGAGGGTTATGCTCCTCCTGGGGAGTGCTGTCCCTTACCCAGCCGCTGCGTGTGC
AACCCCGCAGGCTGTCTGCGCAAAGTCTGCCAGCCGGGAAACCTGAACATACTAGTGTCAAAAGCCTCAGGGAAG
CCGGGAGAGTGCTGTGACCTCTATGAGTGCAAACCAGTTTTCGGCGTGGACTGCAGGACTGTGGAATGCCCTCCT
GTTCAGCAGACCGCGTGTCCCCCGGACAGCTATGAAACTCAAGTCAGACTAACTGCAGATGGTTGCTGTACTTTG
CCAACAAGATGCGAGTGTCTCTCTGGCTTATGTGGTTTCCCCGTGTGTGAGGTGGGATCCACTCCCCGCATAGTC
TCTCGTGGCGATGGGACACCTGGAAAGTGCTGTGATGTCTTTGAATGTGTTAATGATACAAAGCCAGCCTGCGTA
TTTAACAATGTGGAATATTATGATGGAGACATGTTTCGAATGGACAACTGTCGGTTCTGTCGATGCCAAGGGGGC
GTTGCCATCTGCTTCACTGCCCAGTGTGGTGAGATAAACTGCGAGAGGTACTACGTGCCCGAAGGAGAGTGCTGC
CCAGTGTGTGAAGATCCAGTGTATCCTTTTAATAATCCCGCTGGCTGCTATGCCAATGGCCTGATCCTTGCCCAC
GGAGACCGGTGGCGGGAAGACGACTGCACATTCTGCCAGTGCGTCAACGGTGAACGCCACTGCGTTGCGACCGTC
TGCGGACAGACCTGCACAAACCCTGTGAAAGTGCCTGGGGAGTGTTGCCCTGTGTGCGAAGAACCAACCATCATC
ACAGTTGATCCACCTGCATGTGGGGAGTTATCAAACTGCACTCTGACAGGGAAGGACTGCATTAATGGTTTCAAA
CGCGATCACAATGGTTGTCGGACCTGTCAGTGCATAAACACCGAGGAACTATGTTCAGAACGTAAACAAGGCTGC
ACCTTGAACTGTCCCTTCGGTTTCCTTACTGATGCCCAAAACTGTGAGATCTGTGAGTGCCGCCCAAGGCCCAAG
AAGTGCAGACCCATAATCTGTGACAAGTATTGTCCACTTGGATTGCTGAAGAATAAGCACGGCTGTGACATCTGT
CGCTGTAAGAAATGTCCAGAGCTCTCATGCAGTAAGATCTGCCCCTTGGGTTTCCAGCAGGACAGTCACGGCTGT
CTTATCTGCAAGTGCAGAGAGGCCTCTGCTTCAGCTGGGCCACCCATCCTGTCGGGCACTTGTCTCACCGTGGAT
GGTCATCATCATAAAAATGAGGAGAGCTGGCACGATGGGTGCCGGGAATGCTACTGTCTCAATGGACGGGAAATG
TGTGCCCTGATCACCTGCCCGGTGCCTGCCTGTGGCAACCCCACCATTCACCCTGGACAGTGCTGCCCATCATGT
GCAGATGACTTTGTGGTGCAGAAGCCAGAGCTCAGTACTCCCTCCATTTGCCACGCCCCTGGAGGAGAATACTTT
GTGGAAGGAGAAACGTGGAACATTGACTCCTGTACTCAGTGCACCTGCCACAGCGGACGGGTGCTGTGTGAGACA
GAGGTGTGCCCCACCGCTGCTCTGCCAGAACCCCTCACGCACCCAGGATTCCTGCTGCCCACAGTGTACAGATCAA
CCTTTTCGGCCTTCCTTGTCCCGCAATAACAGCGTACCTAATTACTGCAAAAATGATGAAGGGGGATATATTCCTG
GCAGCTGAGTCCTGGAAGCCTGACGTTTGTACCAGCTGCATCTGCATTGATAGCGTAATTAGCTGTTTCTCTGAG
TCCTGCCCTTCTGTATCCTGTGAAAGACCTGTCTTGAGAAAAGGCCAGTGTTGTCCCTACTGCATAGAAGACACA
ATTCCAAAGAAGGTGGTGTGCCACTTCAGTGGGAAGGCCTATGCCGACGAGGAGCGGTGGGACCTTGACAGCTGC
ACCCACTGCTACTGCCTGCAGGGCCAGACCCTCTGCTCGACCGTCAGCTGCCCCCCTCTGCCCTGTGTTGAGCCC
ATCAACGTGGAAGGAAGTTGCTGCCCAATGTGTCCAGAAATGTATGTCCCAGAACCAACCAATATACCCATTGAG
AAGACAAACCATCGAGGAGAGGTTGACCTGGAGGTTCCCCTGTGGCCCACGCCTAGTGAAAATGATATCGTCCAT
CTCCCTAGAGATATGGGTCACCTCCAGGTAGATTACAGAGATAACAGGCTGCACCCAAGTGAAGATTCTTCACTG
GACTCCATTGCCTCAGTTGTGGTTCCCATAATTATATGCCTCTCTATTATAATAGCATTCCTATTCATCAATCAG
AAGAAACAGTGGATACCACTGCTTTGCTGGTATCGAACACCAACTAAGCCTTCTTCCTTAAATAATCAGCTAGTA
TCTGTGGACTGCAAGAAAGGAACCAGAGTCCAGGTGGACAGTTCCCAGAGAATGCTAAGAATTGCAGAACCAGAT
GCAAGATTCAGTGGCTTCTACAGCATGCAAAAACAGAACCATCTACAGGCAGACAATTTCTACCAAACAGTG**TGA**

AGAAAGGCAACTAGGATGAGGTTTCAAAAGACGGAAGACGACTAAATCTGCTCTAAAAAGTAAACTAGAATTTGT
GCACTTGCTTAGTGGATTGTATTGGATTGTGACTTGATGTACAGCGCTAAGACCTTACTGGGATGGGCTCTGTCT
ACAGCAATGTGCAGAACAAGCATTCCCACTTTTCCTCAAGATAACTGACCAAGTGTTTTCTTAGAACCAAAGTTT
TTAAAGTTGCTAAGATATATTTGCCTGTAAGATAGCTGTAGAGATATTTGGGGTGGGGACAGTGAGTTTGGATGG
GGAAATGGGTGGGAGGGTGGTGTTGGGAAGAAAAATTGGTCAGCTTGGCTCGGGGAGAAACCTGGTAACATAAAA
GCAGTTCAGTGGCCCAGAGGTTATTTTTTTTCCTATTGCTCTGAAGACTGCACTGGTTGCTGCAAAGCTCAGGCCT

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FIGURE 2145B

GAATGAGCAGGAAACAAAAAAGGCCTTGCGACCCAGCTGCCATAACCACCTTAGAACTACCAGACGAGCACATCA
GAACCCTTTGACAGCCATCCCAGGTCTAAAGCCACAAGTTTCTTTTCTATACAGTCACAACTGCAGTAGGCAGTG
AGGAAGCCAGAGAAATGCGATAGCGGCATTTCTCTAAAGCGGGTTATTAAGGATATATACAGTTACACTTTTTGC
TGCTTTTATTTTCTTCCAAGCCAATCAATCAGCCAGTTCCTAGCAGAGTCAGCACATGAACAAGATCTAAGTCAT
TTCTTGATGTGAGCACTGGAGCTTTTTTTTTTTTACAACGTGACAGGAAGAGGAGGGAGAGGGTGACGAACACCA
GGCATTTCCAGGGGCTATATTTCACTGTTTGTTGTTGCTTTGTTCTGTTATATTGTTGGTTGTTCATAGTTTTTG
TTGAAGCTCTAGCTTAAGAAGAAACTTTTTTTAAAAAGACTGTTTGGGGATTCTTTTTCCTTATTATATACTGAT
TCTACAAAATAGAAACTACTTCATTTTAATTGTATATTATTCAAGCACCTTTGTTGAAGCTCAAAAAAAATGATG
CCTCTTTAAACTTTAGCAATTATAGGAGTATTTATGTAACTATCTTATGCTTCAAAAAACAAAGTATTTGTGTG
CATGTGTATATAATATATATATATACATATATATTTATACACATACAATTTATGTTTTCCTGTTGAATGTATTTT
TATGAGATTTTAACCAGAACAAAGGCAGATAAACAGGCATTCCATAGCAGTGCTTTTGATCACTTACAAATTTTT
TGAATAACACAAAATCTCATTCTACCTGCAGTTTAATTGGAAAGATGTGTGTGTGAGAGTATGTATGTGTGTGTG
TGTGTGTGTGTGTGCGCGCGCACGCACGCCTTGAGCAGTCAGCATTGCACCTGCTATGGAGAAGGGTATTCCT
TTATTAAAATCTTCCTCATTTGGATTTGCTTTCAGTTGGTTTTCAATTTGCTCACTGGCCAGAGACATTGATGGC
AGTTCTTATCTGCATCACTAATCAGCTCCTGGATTTTTTTTTTTTTTTTTCAAACAATGGTTTGAAACAACTAC
TGGAATATTGTCCACAATAAGCTGGAAGTTTGTTGTAGTATGCCTCAAATATAACTGACTGTATACTATAGTGGT
AACTTTTCAAACAGCCCTTAGCACTTTTATACTAATTAACCCATTGTGCATTGAGTTTTCTTTTAAAAATGCTT
GTTGTGAAAGACACAGATACCCAGTATGCTTAACGTGAAAAGAAAATGTGTTCTGTTTTGTAAAGGAACTTTCAA
GTATTGTTGTAAATACTTGGACAGAGGTTGCTGAACTTTAAAAAAAATTAATTTATTATTATAATGACCTAATTT
ATTAATCTGAAGATTAACCATTTTTTTGTCTTAGAATATCAAAAAGAAAAGAAAAAGGTGTTCTAGCTGTTTGC
ATCAAAGGAAAAAAAGATTTATTATCAAGGGGCAATATTTTTATCTTTTCCAAAATAAATTTGTTAATGATACAT
TACAAAAATAGATTGACATCAGCCTGATTAGTATAAATTTTGTTGGTAATTAATCCATTCCTGGCATAAAAAGTC
TTTATCAAAAAAAATTGTAGATGCTTGCTTTTTGTTTTTTCAATCATGGCCATATTATGAAAATACTAACAGGAT
ATAGGACAAGGTGTAAATTTTTTTATTATTATTTTAAAGATATGATTTATCCTGAGTGCTGTATCTATTACTCTT
TTACTTTGGTTCCTGTTGTGCTCTTGTAAAAGAAAAATATAATTTCCTGAAGAATAAAATAGATATATGGCACTT
GGAGTGCATCATAGTTCTACAGTTTGTTTTTGTTTCTTCAAAAAAGCTGTAAGAGAATTATCTGCAACTTGATT
CTTGGCAGGAAATAAACATTTTGAGTTGAAATCAAAAAAAAAAAAAAAAAAA

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FIGURE 2146

MYLVAGDRGLAGCGHLLVSLLGLLLLLARSGTRALVCLPCDESKCEEPRNCPGSIVQGVCGCCYTCASQRNESCG
GTFGIYGTCDRGLRCVIRPPLNGDSLTEYEAGVCEDENWTDDQLLGFKPCNENLIAGCNIINGKCECNTIRTCSN
PFEFPSQDMCLSALKRIEEEKPDCSKARCEVQFSPRCPEDSVLIEGYAPPGECCPLPSRCVCNPAGCLRKVCQPG
NLNILVSKASGKPGECCDLYECKPVFGVDCRTVECPPVQQTACPPDSYETQVRLTADGCCTLPTRCECLSGLCGF
PVCEVGSTPRIVSRGDGTPGKCCDVFECVNDTKPACVFNNVEYYDGDMFRMDNCRFCRCQGGVAICFTAQCGEIN
CERYYVPEGECCPVCEDPVYPFNNPAGCYANGLILAHGDRWREDDCTFCQCVNGERHCVATVCGQTCTNPVKVPG
ECCPVCEEPTIITVDPPACGELSNCTLTGKDCINGFKRDHNGCRTCQCINTEELCSERKQGCTLNCPFGFLTDAQ
NCEICECRPRPKKCRPIICDKYCPLGLLKNKHGCDICRCKKCPELSCSKICPLGFQQDSHGCLICKCREASASAG
PPILSGTCLTVDGHHHKNEESWHDGCRECYCLNGREMCALITCPVPACGNPTIHPGQCCPSCADDFVVQKPELST
PSICHAPGGEYFVEGETWNIDSCTQCTCHSGRVLCETEVCPPLLCQNPSRTQDSCCPQCTDQPFRPSLSRNNSVP
NYCKNDEGDIFLAAESWKPDVCTSCICIDSVISCFSESCPSVSCERPVLRKGQCCPYCIEDTIPKKVVCHFSGKA
YADEERWDLDSCTHCYCLQGQTLCSTVSCPPLPCVEPINVEGSCCPMCPEMYVPEPTNIPIEKTNHRGEVDLEVP
LWPTPSENDIVHLPRDMGHLQVDYRDNRLHPSEDSSLDSIASVVVPIIICLSIIIAFLFINQKKQWIPLLCWYRT
PTKPSSLNNQLVSVDCKKGTRVQVDSSQRMLRIAEPDARFSGFYSMQKQNHLQADNFYQTV

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FIGURE 2147

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AACTCGGTGAACAACTGAGGGAACCAAACCAGAGACGCGCTGAACAGAGAGAATCAGGCTCAAAGCAAGTGGAAG
TGGGCAGAGATTCCACCAGGACTGGTGCAAGGCGCAGAGCCAGCCAGATTTGAGAAGAAGGCAAAAAGATGCTGG
GGAGCAGAGCTGTAATGCTGCTGTTGCTGCTGCCCTGGACAGCTCAGGGCAGAGCTGTGCCTGGGGGCAGCAGCC
CTGCCTGGACTCAGTGCCAGCAGCTTTCACAGAAGCTCTGCACACTGGCCTGGAGTGCACATCCACTAGTGGGAC
ACATGGATCTAAGAGAAGAGGGAGATGAAGAGACTACAAATGATGTTCCCCATATCCAGTGTGGAGATGGCTGTG
ACCCCCAAGGACTCAGGGACAACAGTCAGTTCTGCTTGCAAAGGATCCACCAGGGTCTGATTTTTTATGAGAAGC
TGCTAGGATCGGATATTTTCACAGGGGAGCCTTCTCTGCTCCCTGATAGCCCTGTGGGCCAGCTTCATGCCTCCC
TACTGGGCCTCAGCCAACTCCTGCAGCCTGAGGGTCACCACTGGGAGACTCAGCAGATTCCAAGCCTCAGTCCCA
GCCAGCCATGGCAGCGTCTCCTTCTCCGCTTCAAAATCCTTCGCAGCCTCCAGGCCTTTGTGGCTGTAGCCGCCC
GGGTCTTTGCCCATGGAGCAGCAACCCTGAGTCCCTAAAGGCAGCAGCTCAAGGATGGCACTCAGATCTCCATGG
CCCAGCAAGGCCAAGATAAATCTACCACCCCAGGCACCTGTGAGCCAACAGGTTAATTAGTCCATTAATTTTAGT
GGGACCTGCATATGTTGAAAATTACCAATACTGACTGACATGTGATGCTGACCTATGATAAGGTTGAGTATTTAT
TAGATGGGAAGGGAAATTTGGGGATTATTTATCCTCCTGGGGACAGTTTGGGGAGGATTATTTATTGTATTTATA
TTGAATTATGTACTTTTTTCAATAAAGTCTTATTTTTGTGGCTAAAAAAAA
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FIGURE 2148

MLGSRAVMLLLLLPWTAQGRAVPGGSSPAWTQCQQLSQKLCTLAWSAHPLVGHMDLREEGDEETTNDVPHIQCGD
GCDPQGLRDNSQFCLQRIHQGLIFYEKLLGSDIFTGEPSLLPDSPVGQLHASLLGLSQLLQPEGHHWETQQIPSL
SPSQPWQRLLLRFKILRSLQAFVAVAARVFAHGAATLSP

FIGURE 2149

GCAGGTAGGTGGACGGAGAGATAGCAGCGACGAGGACAGGCCAAACAGTGACAGCCACGTAGAGGATCTGGCAGA
CAAAGAGACAAGGTGAGAAGGAGACTTTGGAAGTGACCCACC**ATG**GGGCTCAGCATCTTTTTGCTCCTGTGTGTT
CTTGGGCTCAGCCAGGCAGCCACACCGAAGATTTTCAATGGCACTGAGTGTGGGCGTAACTCACAGCCGTGGCAG
GTGGGGCTGTTTGAGGGCACCAGCCTGCGCTGCGGGGGTGTCCTTATTGACCACAGGTGGGTCCTCACAGCGGCT
CACTGCAGCGGCAGCAGGTACTGGGTGCGCCTGGGGGAACACAGCCTCAGCCAGCTCGACTGGACCGAGCAGATC
CGGCACAGCGGCTTCTCTGTGACCCATCCCGGCTACCTGGGAGCCTCGACGAGCCACGAGCACGACCTCCGGCTG
CTGCGGCTGCGCCTGCCCGTCCGCGTAACCAGCAGCGTTCAACCCCTGCCCCTGCCCAATGACTGTGCAACCGCT
GGCACCGAGTGCCACGTCTCAGGCTGGGGCATCACCAACCACCCACGGAACCCATTCCCGGATCTGCTCCAGTGC
CTCAACCTCTCCATCGTCTCCCATGCCACCTGCCATGGTGTGTATCCCGGGAGAATCACGAGCAACATGGTGTGT
GCAGGCGGCGTCCCGGGGCAGGATGCCTGCCAGGGTGATTCTGGGGGCCCCCTGGTGTGTGGGGGAGTCCTTCAA
GGTCTGGTGTCCTGGGGGTCTGTGGGGCCCTGTGGACAAGATGGCATCCCTGGAGTCTACACCTATATTTGCAAC
TCCACTCTTGTTGGCCTGGGAACTTCTTGGAACTTTAACTCCTGCCAGCCCTTC**TAA**GACCCACGAGCGGGGTGA
GAGAAGTGTGCAATAGTCTGGAATAAATATAAATGAAGGAGGGGC

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FIGURE 2150

MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLIDHRWVLTAAHCSGSRYWVRLGEH
SLSQLDWTEQIRHSGFSVTHPGYLGASTSHEHDLRLLRLRLPVRVTSSVQPLPLPNDCATAGTECHVSGWGITNH
PRNPFPDLLQCLNLSIVSHATCHGVYPGRITSNMVCAGGVPGQDACQGDSGGPLVCGGVLQGLVSWGSVGPCGQD
GIPGVYTYICNSTLVGLGTSWNFNSCQPF

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FIGURE 2151

GGGATTTTTAAAAAATCAAAATACAAATCCAACTTTTTGAGTTTTCGTTGTCATTGCTCTTATCTTTCCTGAGTC
ACTTCCCATTTTCCAAACTCAGCAACCCCAGTTTGCGAGTCTGGTTTCATGAACCTTTGTAAGGTGTTTGGTGCG
GTCACRGTGTATACTTGCCGTGTAGTATTTGACTCAGCGCGATCTGCCTTGAGTCATTTTACCGCGGCCATTTAC
TACTGCCGTTGAGCCCTGTCCACGCCTTGGGAGTGTTGATATGTTGAGAGTTTTCTGTCTGGCTGRGGAGGGATC
ATTTAGTTTTTGCGGACGTATGTTGCACTGAGGATTTAGGGAGAGAGCAAGATTTCTGTTGAGGAGGTTCAGAAG
TATAAGGAATCGGGAGAGTAGATAGGAGTGAAGCATTGGCAGCGTAAAGAAGCTTGGCTTAGCTTTAATGGATT
AGGGAGAGATTGCTATCTAGCATTATTACATGTTATTGTTCTCTTTGCTATTTTATACACCTAGAACAACCTTTC
CCTCGGGGTTAACAAACATCTTCAACTCTGTTTTCTGTATGGCTCCTGACTCTTACCTTTGTTTTAGGAGGCTTC
CCTCTTCAGAGGAAACTGGGAGAAGCCAATTTCCACTGCTTCTTTTTCCTGTGCCTTTTTAACACTCAAACCCAG
AACACTTAATCCTCTGCAGCTCGTGCAAAAATTCAGTCTGTAATTTAAAATGTGTGCACGGTACACTGCTGACCA
TGGGCATGTCTATTGTTTGTATCTGTAATGTGTATGTCCATTTCAGTGTTGTCTGTTTTAGTATGCAGGTGATAG
ACTAGAGAACAAGACCTCTGTCTCCGTAGCATCCTGGAGCAGTCTGAATGCCAGA**ATG**GATAACCGTTTTGCTAC
AGCATTTGTAATTGCTTGTGTGCTTAGCCTCATTTCCACCATCTACATGGCAGCCTCCATTGGCACAGACTTCTG
GTATGAATATCGAAGTCCAGTTCAAGAAAATTCCAGTGATTTGAATAAAAGCATCTGGGATGAATTCATTAGTGA
TGAGGCAGATGAAAAGACTTATAATGATGCACTTTTTCGATACAATGGCACAGTGGGATTGTGGAGACGGTGTAT
CACCATACCCAAAAACATGCATTGGTATAGCCCACCAGAAAGGACAGAGTCATTTGATGTGGTCACAAAATGTGT
GAGTTTCACACTAACTGAGCAGTTCATGGAGAAATTTGTTGATCCCGGAAACCACAATAGCGGGATTGATCTCCT
TAGGACCTATCTTTGGCGTTGCCAGTTCCTTTTACCTTTTGTGAGTTTAGGTTTGATGTGCTTTGGGGCTTTGAT
CGGACTTTGTGCTTGCATTTGCCGAAGCTTATATCCCACCATTGCCACGGGCATTCTCCATCTCCTTGCAGGTCT
GTGTACACTGGGCTCAGTAAGTTGTTATGTTGCTGGAATTGAACTACTCCACCAGAAACTAGAGCTCCCTGACAA
TGTATCCGGTGAATTTGGATGGTCCTTCTGCCTGGCTTGTGTCTCTGCTCCCTTACAGTTCATGGCTTCTGCTCT
CTTCATCTGGGCTGCTCACACCAACCGGAAAGAGTACACCTTAATGAAGGCATATCGTGTGGCA**TGA**GCAAGAAA
CTGCCTGCTTTACAATTGCCATTTTTATTTTTTTAAAATAATACTGATATTTTCCCCACCTCTCAATTGTTTTTA
ATTTTTATTTGTGGATATACCATTTTATTATGAAAATCTATTTTATTTATACACATTCACCACTAAATACACACT
TAATACCACTAAAATTTATGTGGTTTACTTTAAGCGATGCCATCTTTCAAATAAACTAATCTAGGTCTAGACAGA
AAGAAATGGATAGAGACTTGACACAAATTTATGAAAGAAAATTGGGAGTAGGAATGTGACCGAAAACAAGTTGTG
CTAATGTCTGTTAGACTTTTCAGTAAAACTAAAGTAACTGTATCTGTTCAACTAAAAACTCTATATTAGTTTCTT
TGGGAAACCTCTCATCGTCAAAACTTTATGTTCACTTTGCTGTTGTAGATAGCCAGTCAACCAGCAGTATTAGTG
CTGTTTTCAAAGATTTAAGCTCTATAAAATTGGGAAATTATCTAAGATCATTTTCCCTAAGCATTGACACATAGC
TTCATCTGAGGTGAGATATGGCAGCTGTTTGTATCTGCACTGTGTCTGTCTACAAAAAGTGAAAAATACAGTGTT
TACTTGAAATTTTAACTTTGTAACTGCAAGAATTCCAGTTCAGCCGGGCGAGGATTAGTATTATTTTTAACTCTC
CGTAAGATTTTCAGTACCACCAAATTGTTTTGGATTTTTTTTCTTTCCTCTTCACATACCAGGGTTATTÄAAAGT
GTGCTTTCTTTTTACATTATATTACAGTTACAAGGTAAAATTCCTCAACTGCTATTTATTTATTCCAGCCCAGTA
CTATAAAGAACGTTTCACCATAATGACCCTCCAGAGCTGGGAAACCTACCACAAGATCTAAAGTTCTGGCTGTCC
ATTAACCTCCAACTATGGTCTTTATTTCTTGTGGTAATATGATGTGCCTTCCTTGCCTAAATCCCTTCCTGGTG
TGTATCAACATTATTTAATGTCTTCTAATTCAGTCATTTTTTTATAAGTATGTCTATAAACATTGAACTTTAAAA
AACTTATTTATTTATTCCACTACTGTAGCÄATTGACAGATTAAAAAAATGTAACTTCATAATTTCTTACCATAAC
CTCAATGTCTTTTTTAAAAAATAAAATTAAAAATGAAAGAGAAA

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FIGURE 2152

MDNRFATAFVIACVLSLISTIYMAASIGTDFWYEYRSPVQENSSDLNKSIWDEFISDEADEKTYNDALFRYNGTV
GLWRRCITIPKNMHWYSPPERTESFDVVTKCVSFTLTEQFMEKFVDPGNHNSGIDLLRTYLWRCQFLLPFVSLGL
MCFGALIGLCACICRSLYPTIATGILHLLAGLCTLGSVSCYVAGIELLHQKLELPDNVSGEFGWSFCLACVSAPL
QFMASALFIWAAHTNRKEYTLMKAYRVA

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FIGURE 2153

CTAGTTCTAGATCCGGCGAGTAGCTGGCGGTCCCGGGTGCTGCTGGTTAGTGTGCTCTGAGGGAGGGTCCGAGCC
AGCCGCTGTTTTGCCGGAGGAGCCCCTCAGGCCGTAGTAAGCATTAATA**ATG**TCTTTCATCTTTGAGTGGATCTA
CAATGGCTTCAGCAGTGTGCTCCAGTTCCTAGGACTGTACAAGAAATCTGGAAAACTTGTATTCTTAGGTTTGGA
TAATGCAGGCAAAACCACTCTTCTTCACATGCTCAAAGATGACAGATTGGGCCAACATGTTCCAACACTACATCC
GACATCAGAAGAGCTAACAATTGCTGGAATGACCTTTACAACTTTTGATCTTGGTGGGCACGAGCAAGCACGTCG
CGTTTGGAAAAATTATCTCCCAGCAATTAATGGGATTGTCTTTCTGGTGGACTGTGCAGATCATTCTCGCCTCGT
GGAATCCAAAGTTGAGCTTAATGCTTTAATGACTGATGAAACAATATCCAATGTGCCAATCCTTATCTTGGGTAA
CAAAATTGACAGAACAGATGCAATCAGTGAAGAAAAACTCCGTGAGATATTTGGGCTTTATGGACAGACCACAGG
AAAGGGGAATGTGACCCTGAAGGAGCTGAATGCTCGCCCCATGGAAGTGTTCATGTGCAGTGTGCTCAAGAGGCA
AGGTTACGGCGAGGGTTTCCGCTGGCTCTCCCAGTATATTGAC**TGA**TGTTTGGACGGTGAAAATAAAAGAGTTTT
ACTTCTCTGGACTGATCCTATTCACAGCTTCCTCATGAACTTTTCTAATAGAACAAGGAAAGCTCTCCAACCATG
TCTGGCGTTGAGAAGCCAAGAGTCTCTGTCAACTCTCTCATTGCCCAGTGGTGACATGTGCTCTTCTCCACACTG
TTGGGAGGTAATGCTGCCCCACGTGCTGGTGCAGGTCAGTATCCTGGGACTTGGAAGCTGGCAGGATTTGCCGGG
TAAAGCTGTATGCCATCATGGGGCACCTGAAAAGAAAAACACGTCTCACCACTGTGGTTGATTCAAAAGAAAGTG
ATTCTATTTTTTAAAGAAAGCGTTGTTAATGTAATTGGTATCCCTCCTAACTTTTTGAGTTCACAATTTACTTGG
TCCAGAGTTTTCTATTCTTTTTTTTTTTTTAAACTAATGAATGACATTTAGATACTTCATAAAATTATGAACAGAT
ATGGAGGCCAGAGCTCATTTGGGTAAACTTACTCCTGCTGAGTTAGCAGGTTGGTGAGAGAAGCTCCCCTGAGCT
CACCTGTCTCTCTGACTGCCTTGGAGTAGGTGGCATAACCTTGTGCACAGAGAACTAGAAAAGGGGCAGAACCCC
GGCCTTGCAGTTGTGGCAGGTTTCCACTGTGGTAAGCTAGGTTCATTCCTCATCAAGGAATGTGTAGCAGATTGT
TCACTGTGGAGGAGTTAATTATAGAATGGGTTATTGTTGTTATTCTTACTCATGAAGTTACAGATTTTAGCCAGT
CTTTGCTTTTATACTTTTGTGAAATTTAATTTCTCTCTATAGCACCTTCCTTTTTCGTTTTCAGTTATCAAAAGT
GACTTTGACCTCATAAAAGAGTTGAGAACATCTCTCGTGTCACATACTGCAGGTGCATCAGTTACTTTTGCACAG
ATTCTGGGGGACATTTTTCTGAATAGGAAGACAGGACAAAGTTAACAGCTTAAGGGCTCTTAATTCTGTGAGTTG
AGGACTTAAAAGTATTGTAGCATTTGTTTGGATCCATGAAAAATGTATTCAGTGGGCTTTAAAATTTCCATTTGC
AGAATTTGGTCTCTCAGGCTGTTTGGGAGCTCTTTTTTTTTACATTTTTTCTCCTTTGACACCTATTTTATTGGTG
TTTAAAGTAAAGGTTAACATCTGTAGCTTTTCCAGGTTTTTTTTTTTTTTTTTTTGATATGAAATTGTCTTTCTC
CATTGCAGAAATAAGCTAGGGAAACACTAACCCAAAAACTTTCTGTAGAGCTGTTCCTTTGGAGGCAGCATCACT
TATTGGCAGTAAAGACTCAGTATAAAAGCACCAGCATCCCTACTTGGGTGATGGGGATTAATTTTATAGCATTCC
ATTTTCCTAGTGCCACATGTGAAATTGGATTTTGATGATCTTAATCTATATTCTACCCTTATAATAAAAGATCAA
AAGATATATCTCCTATGAACAGATTGGAGATAGGAGATGAAAAGTTGGGAGGATGTCTTTATTCTAATGTGAGGG
TAGGGAAAATGTGGATAACATTACTGGGGTGAAGGAGGCATTGTTCTTTAGTTGGAGTTCTCATTTTTATTCTCC
AGTACTGACTTGTGGGGAAAGCATACTTTTTCACTGCCAGGTACTGAATGCAGAGGCTCAGTGAAGTATATATGT
GGGAAGTGCATGCATTTCGTTTATTAGCAAACATAGCTGGATTAAGACAAAGTTGTTGGTTTGGAAAGGGGTTAA
AGCCTTAAGTGAACAAATCTAGCTAACAGTGAATGAACTAGGTAATATAACTTGCATATTTTTAATTTCCTTTGG
TTAAAGGTCCCCCATACTTCTCTGTTCGGAGACATGAGAAGTATGATTACTTCAGTGTTAGTTTTCTTAATTTTT
TTTTCCCCTATTTGTCCCTTGTCACTTTGTTGCAAGCTAGAAATCTGTGGGTTATACATAGGGCAGCTCTTTGT
GAAAGTGGTTTATTCCACTGGAGAAAGGGGATTGAAAATCAGTTAGAACCAATGTATTTCTTGCCCCACGGAACA
CTATTCCTATAAGATAGCTGAAAGAAGCTGCTGTGAGGAGCTCAGCTCCAAACACAGGATCAGCACCTTGTATAG
GAATTCCCATGAATTATGACTTCTCATTCTGTTTTATCAGAGTGCATATATGTCCTACTTCAGGAAAAGTAAAAC
AGTCATTTACGAAAGAAAGTCAATCTGTATCCTAAGCATTTTAATAAAAAGTTAAAACAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2154

MSFIFEWIYNGFSSVLQFLGLYKKSGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHEQARRVWKNYLPAINGIVFLVDCADHSRLVESKVELNALMTDETISNVPILILGNKIDRTDAISEEKLREI
FGLYGQTTGKGNVTLKELNARPMEVFMCSVLKRQGYGEGFRWLSQYID